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September 14, 2015

VIA OVERNIGHT DELIVERY

Idaho Public Utilities Commission 472 West Washington Boise, ID 83702-5983

Attention: Jean D. Jewell

Commission Secretary

Re: PacifiCorp Notice of Affiliate Transaction

Case No. PAC-E-05-8

Dear Ms. Jewell:

This letter will serve as written notice pursuant to Commitment I 17(2), incorporated in the Idaho Public Utilities Commission Order No. 29973 issued February 13, 2006, as supplemented by Order No. 29998 March 14, 2006, in the above-referenced proceeding, approving the acquisition of PacifiCorp by MidAmerican Energy Holdings Company (now known as Berkshire Hathaway Energy Company or BHE), of ongoing ordinary course affiliated interest transactions from time to time with Phillips 66 Company (Phillips 66).

PacifiCorp is a wholly-owned indirect subsidiary of BHE. BHE is a subsidiary of Berkshire Hathaway, Inc. (Berkshire Hathaway). On August 28, 2015, Berkshire Hathaway acquired 10 percent of the outstanding common stock of Phillips 66, causing Phillips 66 to become a PacifiCorp affiliate, as defined by certain PacifiCorp jurisdictions.

Phillips 66 sells gear and engine lubricating oil, transformer insulation oil, hydraulic oil, grease, and other lubricating and insulating petroleum and synthetic fluids to PacifiCorp, all of which are used in the ordinary course of PacifiCorp's generation, mining and distribution operations. Prior to August 28, 2015, PacifiCorp purchased lubricant products pursuant to an existing master materials supply contract in place with BHE (the Agreement). The Agreement is used by several BHE subsidiaries, including PacifiCorp, to place purchase orders. PacifiCorp intends to continue using the Agreement to purchase lubricant products from Phillips 66.

A copy of the Agreement is included with this Notice as Attachment A to this Notice. Exhibit B to the Agreement contains commercially sensitive pricing information that could expose PacifiCorp and Phillips 66 to competitive injury if disclosure is unrestricted. Accordingly, Exhibit B of the Agreement is submitted under seal, and PacifiCorp requests that it be made confidential.

Jean D. Jewell Notice of Affiliate Transaction September 14, 2015

PacifiCorp purchases lubricant products from Phillips 66 as needed from time to time in the normal course of its operations. As such, there is no set dollar amount of such purchases. PacifiCorp has historically purchased approximately \$700,000 of oil and grease products per year and anticipates future purchase levels will be similar.

The Agreement was competitively procured and contains standard commercial sales terms and conditions to protect PacifiCorp's ability to provide safe and reliable service. Thus, the continuation of the purchase order transactions under the Agreement will not harm the public interest.

Please do not hesitate to contact me if you have any questions.

Best Regards,

R. Jeff Richards

Vice President and General Counsel

PacifiCorp

Enclosures

MASTER MATERIALS SUPPLY CONTRACT

BETWEEN

BERKSHIRE HATHAWAY ENERGY COMPANY

AND

PHILLIPS 66 COMPANY

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MASTER MATERIALS SUPPLY CONTRACT

BETWEEN

BERKSHIRE HATHAWAY ENERGY COMPANY

AND

PHILLIPS 66 COMPANY

PARTIES

The Parties to this Master Materials Supply Contract (the "Contract") are Berkshire Hathaway Energy Company whose principal address is 666 Grand Avenue, P.O. Box 657, Des Moines, Iowa 50306-0657, and its Affiliates who elect to utilize this Contract and agree to be bound by the terms and conditions, and applicable Exhibits and Appendices set forth herein (hereinafter collectively "Company"), and Phillips 66 Company (hereinafter "Supplier"), whose address is 3010 Briarpark Drive, Houston TX 77042. Company and Supplier are hereinafter sometimes collectively referred to as "Parties" and individually as a "Party," as the context may require. The Parties will incorporate these master terms and conditions in their contracts for Supplier's supply of Materials and Work for participating Affiliates. Each Affiliate Participation Letter issued in accordance with this Contract shall constitute a separate contract between Company or its applicable participating Affiliate and Supplier (and references to "the Contract" or "this Contract" shall be construed to refer to the applicable Participation Letter - - with these terms incorporated therein). Each Affiliate that submits an Affiliate Participation Letter in accordance with these master terms and conditions shall be construed as "Company" with respect to the Purchase Orders placed by such Affiliate and is solely responsible for the obligations of "Company" assumed with respect those orders, and neither Berkshire Hathaway Energy Company nor any other Affiliate shall have any responsibility for such obligations.

ARTICLE 1. DEFINITIONS

Affiliate(s) shall mean any entity which Berkshire Hathaway Energy Company now or hereafter (a) owns or controls at least fifty percent (50%) or more of the ownership interest; or (b) exercises management control; or (c) lists as an affiliated company on Exhibit E. Any Affiliate, which elects to participate in and utilize this Contract shall also be "Company" under this Contract and shall be responsible for all obligations associated with the purchase of Materials from Supplier. Additional Affiliates may be added to or removed from Exhibit E at any time upon Supplier's receipt of Notice from Company. Changes to Exhibit E are not required to be incorporated via a written amendment to this Contract. When placing an initial order for Materials, or in conjunction with an initial purchase order, an Affiliate will execute and submit an Affiliate Participation Letter with the order in the form of Exhibit E.

Business Day shall mean a day, other than a Saturday, Sunday or holiday, on which banks are generally open for business. Any generic references to "days" shall be deemed to mean a calendar day and not a Business Day; provided, however, that if the final "day" of any period specified in this Contract falls on a day other than a Business Day, then the period shall be construed so as to end on the next succeeding Business Day.

CIPS Covered Assets shall mean any assets identified by Company as "critical assets" or "critical cyber assets," as those terms are defined in the North American Electric Reliability Corporation Glossary of Terms. To the extent the Materials are to be delivered to a Company Work Site location that requires Supplier to gain access to CIPS Covered Assets or any of the Work to be performed relating to the supply of Materials to Company requires Supplier to gain access to CIPS Covered Assets, Supplier shall adhere to the requirements set forth in Appendix 1, Appendix 2 and Appendix 3, Special Conditions.

Deliverables shall mean all drawings, manuals, calculations, specifications, maps, sketches, designs, tracings, notes, reports, data, computer programs, models, plans, programs, procedures, protocols, samples and other documents and deliverables that are to be provided, obtained, prepared and delivered to Company by Supplier, as set forth in the Specifications.

Emergency shall mean conditions under which, without effecting an immediate repair or replacement: (i) life, health, or safety would be endangered by operation of the Company's assets; (ii) the Company's assets would be

unavailable for commercial use; or (iii) the Company's assets could not be operated, or demonstrated to be operating, in compliance with a) environmental regulations; b) regulations, policies or procedures issued by governmental or regulatory authorities; or c) prudent utility practice.

Force Majeure Event shall mean a delay caused by any national or general strikes (but excluding strikes relating solely to the work force of Company, Supplier or a Subcontractor), fires, riots, acts of God, acts of the public enemy, floods, acts of terrorism, unavoidable transportation accidents or embargoes, or other events which are: (i) not reasonably foreseeable as of the date the applicable Purchase Order is released; and (ii) attributable to a cause beyond the control and without the fault or negligence of the Party incurring such delay. The term Force Majeure Event does not include a delay caused by seasonal weather conditions, general economic conditions, changes in the costs of goods or Supplier's failure to place orders for equipment, materials or other items sufficiently in advance to ensure delivery of the Materials and/or availability when needed.

Lead Time shall mean the maximum production time for any specific item of Material from the date of Supplier's confirmed receipt of Company's Purchase Order, as such Lead Times are stated in Exhibit A.

Material(s) shall mean all lubricant products, equipment, materials, goods, parts, associated hardware, documentation, spare parts, data packages, software and associated incidental services to be delivered or provided to Company, by Supplier, under this Contract and pursuant to Purchase Orders issued to Supplier by Company.

Material Adverse Change or MAC shall mean, with respect to Supplier, if Supplier, in the reasonable opinion of Company, has experienced a material adverse change in Supplier's financial condition or Supplier's ability to fulfill its obligations under this Contract, including, but not limited to, any such change that results in its inability to satisfy ARTICLE 8, CREDIT REQUIREMENTS, including any event or circumstance that would give Company the right to terminate for cause pursuant to ARTICLE 33, TERMINATION FOR CAUSE.

Minimum Order Quantity is defined as three hundred fifty dollars (\$350.00) on any single Purchase Order. For orders less than three hundred fifty dollars (\$350.00), Supplier may elect to ship the material with a common carrier FOB Ship Point, freight terms, pre-pay and add.

Net Replacement Costs shall mean the "cost to cover" remedy available to Company in the event of a default by Supplier under a Purchase Order. The Net Replacement Costs shall be calculated by: (i) subtracting the price payable under the Purchase Order from the costs incurred by Company to obtain an alternative supplier to furnish the Materials that Supplier was otherwise obligated to provide; and (ii) adding a sum for additional managerial, administrative, and other reasonable costs (internal and third-party) Company incurs as a result of Supplier's default.

Notice shall mean a formal written communication which, pursuant to the Contract, one Party must deliver to the other in order to invoke a Contract right set forth herein.

Personnel shall mean the employees of Supplier or any of the employees or representatives of any of Supplier's agents, Subcontractors, or independent contractors, of any tier, who are employed or engaged by Supplier to perform Work or provide all or part or any subpart of the Materials under this Contract.

Purchase Order shall mean the document(s) containing the information set forth in ARTICLE 3, PURCHASE ORDERS, which is used to order Materials pursuant to the master terms and conditions set forth in this Contract.

Specification(s) shall mean any and all drawings, specifications, product descriptions and/or other requirements setting forth Supplier's obligations with respect to the Materials as detailed in Exhibit B, or in any attachment appended to a Purchase Order for a specific Materials order.

Subcontractor shall mean any sub-supplier or contractor, at any tier, having an agreement with Supplier to perform a portion of Supplier's obligations under this Contract.

Term shall mean the period commencing upon the execution of this Contract by Company and continuing thereafter until December 31, 2019, unless earlier terminated as provided herein.

Work shall mean all obligations, duties, requirements and responsibilities for the successful supply and delivery of the Materials in accordance with the terms and conditions set forth herein and inclusive of those detailed within a specific Purchase Order.

Work Site shall mean the location or locations on Company's premises (if any) where the Materials are to be

delivered and any portion of the Work is to be performed.

ARTICLE 2. DESCRIPTION OF SUPPLY

Upon Supplier's receipt of a Purchase Order, Supplier shall supply and deliver to Company the Materials listed and specifically described in Exhibit B in accordance with the Specifications contained therein. Each Purchase Order issued by Company to Supplier shall be placed subject to, and in accordance with, the general terms and conditions set forth in this Contract, including any Lead Times and Minimum Order Quantities.

Company is under no obligation to purchase any specific amount of Materials under this Contract, and this Contract shall not be construed in any way as granting to Supplier an exclusive right to provide any or all of the Materials contemplated herein. The use of Supplier for the purchase of Materials is discretionary with Company, and Company expressly reserves the right to purchase similar or identical items from alternative suppliers during the Term, in Company's sole discretion. The intent of this Contract is to establish master terms and conditions that will govern Purchase Orders issued by Company to Supplier during the Term. The Parties acknowledge the difficulty of determining in advance the exact quantity of Materials Company will need to purchase from Supplier during any contract year, and agree that there must be some elasticity around any estimate. As a consequence, Supplier agrees to supply the estimated quantity set forth in the Affiliate Participation Letter, and Company agrees to exert good faith efforts to purchase the estimated quantity.

Supplier shall maintain inventory levels of Materials to meet Company's estimated Materials purchase forecasts, as such may be provided to Supplier from time to time.

ARTICLE 3. PURCHASE ORDERS

Each Purchase Order will identify and/or describe: (i) the Materials; (ii) the guaranteed delivery date, including any liquidated damages to be assessed in the event of Supplier's failure to timely perform; (iii) agreed pricing (if any) that modifies Exhibit B; (iv) the delivery location and agreed delivery terms that modify ARTICLE 12, DELIVERY (if any); (v) whether the performance of such Work will require access to Company CIPS Covered Assets; (vi) the designated representatives for each Party with respect to the order; (vii) order-specific invoicing instructions; and (viii) any other order-specific terms and conditions. The terms and conditions of this Contract shall apply to each Purchase Order, as supplemented by the order-specific terms of the Purchase Order. This Contract and the applicable Purchase Order shall, together, constitute the entire agreement between the Parties with respect to any specific Materials ordered under this Contract. A Purchase Order will be issued through the Company's procurement system and will specifically reference this Contract.

Purchase Order Submittal - All Purchase Orders from the Company shall be sent via email to:

Phillips 66 Customer Service Center

800-448-6630 Ex. 2

LubesCSCNaturalGasPowerGEN@p66.com

ARTICLE 4. PERIOD OF PERFORMANCE

The Contract shall be effective for Materials ordered pursuant to a Purchase Order issued during the Term of the Contract, whether or not such Materials are scheduled to be delivered or actually delivered prior to the expiration of such Term. The expiration of the Term shall not impact the Parties' respective rights or obligations with respect to any Purchase Orders issued prior to expiration. Moreover, neither the expiration of the Term nor any earlier termination of this Contract shall impact any warranties, indemnities, insurance requirements, confidentiality obligations, termination obligations, or other obligations, which by their own terms are intended to survive the completion of delivery of Materials pursuant to a Purchase Order, all of which shall continue in full force and effect after the termination or expiration of the Contract.

Each Purchase Order will specify a guaranteed delivery date for the Materials. Time is of the essence. Unless otherwise excused by the terms of this Contract, Supplier's failure to timely deliver the Materials shall result in the assessment of liquidated damages, to the extent such liquidated damage amounts are set forth in such Purchase Order. In order for liquidated damages to be enforceable, a Purchase Order containing such liquidated damages must be submitted in strict accordance with ARTICLE 3, PURCHASE ORDERS. Supplier may refuse to accept any Purchase Order containing liquidated damages provisions; provided, however that the quantities included within

such Purchase Order shall be included within Company's good faith purchase commitment set forth in ARTICLE 2, DESCRIPTION OF SUPPLY. Where no liquidated damages are specified, Company will have all of the rights and remedies available at law with respect to late delivery. Supplier will provide advance communication to Company on all Purchase Order that will not be delivered in full per the confirmed Purchase Order delivery date.

ARTICLE 5. CONSIDERATION AND PAYMENT

Except as otherwise set forth in the applicable Purchase Order, prices for Materials shall be those set for in Exhibit B. The pricing set forth in Exhibit B does not include any sales and use taxes to be reimbursed by Company pursuant to ARTICLE 6, TAXES. Escalation or other adjustments to pricing shall only be permitted to the extent expressly set forth in Exhibit B.

Except as otherwise set forth in the applicable Purchase Order, Supplier shall invoice Company for Materials upon or after delivery and acceptance by Company. All invoices shall include separate line item charges for each Material purchased by Company, including separate line items for any additional charges under said invoice. Supplier shall furnish reasonable backup detail and documentation supporting each invoice line item charge including, without limitation, receipts, bills of lading, etc. supporting all charges. Company will pay Supplier, as full consideration for the satisfactory performance of Supplier's obligations under this Contract, all amounts due in accordance with the Contract within thirty (30) days of date of invoice(s). All invoices shall reference the applicable Contract number. Supplier shall identify and clearly set forth on the invoice any discount for early payment. To the extent that Supplier must resubmit any invoice for failing to comply with the Company's invoicing requirements, any offer of a discount for early payment shall remain valid until such time as Company has received a proper invoice for payment. The total amount of consideration payable for the Materials will be specified in the Purchase Order.

Each Affiliate shall furnish to Supplier a listing of all contacts necessary at delivery locations for Supplier to follow-up on past due or disputed invoices. Each Affiliate shall make best efforts to update and maintain this listing for accuracy and forward updates thereto to Supplier's Treasury Department via electronic mail or by facsimile to Supplier's designate. Each Affiliate further agrees to supply via the same routing the names, phone and facsimile number of the supervisors within the Affiliate's accounts payable department to whom payment disputes can be escalated. Supplier shall first make requests hereunder directly to the delivery sites and to the personnel as provided by each Affiliate in the listing referred to above. In order to qualify for the payment terms included above, any new Affiliate, not initially identified on Exhibit E, shall have to satisfactorily complete a credit review in accordance with Supplier's credit procedures.

Any Affiliate, which requests Materials from Supplier hereunder, shall be responsible for all obligations associated with the Affiliate's request and purchase of such Materials. It is understood and agreed that each Affiliate participating in this Contract is solely responsible and liable for its obligations related to the purchase and sale of Materials to Supplier. Berkshire Hathaway Energy Company and any other participating Affiliate(s) shall have no obligation or liability, contractually or otherwise, for payment incurred by the specific Affiliate requesting Materials from Supplier hereunder.

All invoices shall be addressed to the Affiliate requesting the Materials at the address shown on the Affiliate Participation Letter. Additional Affiliates, which may elect to participate in and under this Contract after the effective date hereof, shall notify Supplier of the proper billing address for forwarding Supplier invoices.

Company may offset any such payment to reflect amounts owing from Supplier to Company or its Affiliates pursuant to this Contract or any other agreement between the parties. In addition, Company may withhold all payments otherwise due Supplier until such time as Supplier has provided the Default Security, if any, that is required by this Contract.

ARTICLE 6. TAXES

The pricing described in Exhibit B is exclusive of all taxes to be borne by Company arising out of Supplier's performance hereunder, including without limitation sales and use taxes. Except as otherwise set forth in the applicable Purchase Order, local sales and use taxes in all states shall be paid by Supplier and invoiced as a separate line item. Notwithstanding the foregoing, Supplier is solely responsible for all import and export duties and value-added taxes related to the Materials and all applicable parts or supplies. Upon request of Company, Supplier shall promptly provide to Company evidence satisfactory to Company of the payment of all applicable taxes.

ARTICLE 7. ACCOUNTING AND AUDITING

Supplier shall keep accurate and complete accounting records in support of any cost-based billings and claims charged to Company in accordance with generally accepted accounting principles. Company, or its audit representatives, shall have the right at any reasonable time or times to examine, audit, and copy the records, vouchers, and other source documents which relate to any claim for compensation other than pricing elements which are fixed in amount by this Contract. Such documents shall be available for examination, audit, and reproduction for three (3) years after completion or termination of this Contract.

Supplier shall assist Company with preparing necessary audit material and will allow Company to review any work papers prepared by independent auditors as allowed by professional standards. Any over-collections shall be returned within thirty (30) days from date of Notice of overcharge. Audit findings will be considered to be final for the period audited.

ARTICLE 8. CREDIT REQUIREMENTS

Supplier shall meet the requirements of either clause (i) or clause (ii) below: (i) Supplier maintains a senior unsecured debt rating from Standard & Poor's of BBB- or better; or (ii) if Supplier does not maintain a satisfactory debt rating, Supplier meets ALL of the following credit standards: a) tangible net worth ten (10) times the projected maximum liability of Supplier under this Contract; b) no change in the condition of its earnings, net worth, or working capital over the last twenty-four (24) months, which would reasonably be anticipated to impair Supplier's ability to meet its obligations under this Contract; and c) Supplier is not in default under any of its other agreements and is current on all of its financial obligations.

If requested by Company, Supplier shall within thirty (30) days provide Company with copies of its most recent annual and quarterly financial statements prepared in accordance with generally accepted accounting principles.

ARTICLE 9. [INTENTIONALLY DELETED]

ARTICLE 10. WITHHOLDING PAYMENT

Company may, without limiting any other rights or remedies Company may have, withhold from payment sufficient amounts which reflect the reasonable cost to repair or replace non-conforming or defective Materials or the value of any claim which Company has against Supplier under the Contract.

ARTICLE 11. DESIGNATED REPRESENTATIVES AND NOTICES

Supplier shall designate a representative authorized to receive Purchase Orders and act on its behalf and shall advise Company in writing of the name, address, and telephone number of such designated representative, and shall inform Company of any subsequent change in such designation. All communications to Supplier relating to the day-to-day activities under this Contract and any applicable Purchase Orders shall be communicated to Supplier's designated representative.

In each Purchase Order, Company shall designate a representative authorized to act on its behalf with respect to the Materials ordered pursuant to such Purchase Order, and shall inform Supplier of any subsequent change in such designation. All communications to Company relating to the day-to-day activities under such Purchase Order shall be communicated to Company's designated representative.

Any formal Notice required to be delivered in writing under the terms of this Contract shall be delivered to the representative of the other Party as designated below. In addition to providing formal Notice to Berkshire Hathaway Energy Company, Supplier shall provide the participating Affiliate, about which the formal Notice pertains, a copy of the same addressed to the representative as set forth on Exhibit E, Affiliates List and Principal Business Address. Additional Affiliates, which may elect to participate in and under this Contract after the effective date hereof, shall notify Supplier of the proper representative and address for forwarding formal Notices required hereunder. All formal written Notices shall either be: (i) hand delivered; (ii) deposited in the mail, properly stamped with the required postage; (iii) sent via registered or certified mail; or (iv) sent via recognized overnight courier service. The Parties' addresses for purposes of Notice shall be as set forth below and for Affiliates, as listed on Exhibit E:

If to Company:		If to Supplier:	
Berkshire Hathaway Energy Company Phillips 66 Company		Phillips 66 Company	
825 NE Multnomah Street, Suite 400		2000 West Sam Houston Parkway So	
Portland, Orego	on 97232	One BriarLake Plaza	
Attention:	Manager, Contract Administration	Attention: Manager Commercial Lubricants	
Telephone:	503-813-5605	Telephone: 281-293-6600	

Either Party may change the name or address of the designated recipient of Notices by delivery of a Notice of such change as provided for in this Article.

ARTICLE 12. DELIVERY

Delivery of the Materials is a substantial and material consideration under this Contract. Unless otherwise set forth in a Purchase Order, delivery of the Materials shall be FOB to the Work Site or other location specified in the Purchase Order, with Supplier retaining all risk, liability and responsibility, financial or otherwise, until Company receives and accepts such Materials, unless otherwise specified in Exhibit B.

Supplier shall deliver Materials according to guaranteed delivery dates (as per the accepted Purchase Order), free of defects, and within a firm Lead Time.

ARTICLE 13. SHIPPING AND HANDLING

Supplier is responsible for ensuring that the Materials furnished under this Contract are suitably packaged to prevent damage under normal handling and transportation methods.

ARTICLE 14. RETURN OF MATERIALS

Supplier shall accept Materials for return to Supplier inventory without charge to Company when the following conditions are met:

- a. The Materials are not unique to Company, are returned in original packaging and in an unused condition, and the return to Supplier by Company was within six (6) months of Company's receipt of the same;
- b. Costs for return logistics to Supplier are to the account of Company; and
- c. Such Materials have been stored by Company in accordance with Supplier provided environmental storage conditions or, in the event Supplier fails to provide environmental storage guidelines, in accordance with generally accepted storage guidelines for such Materials.

ARTICLE 15. [INTENTIONALLY DELETED]

ARTICLE 16. WARRANTY

Supplier warrants that the Materials furnished hereunder shall conform to the Specifications (including all inspection and testing criteria as defined by Company in the Specifications), to any other requirements set forth in the Contract, and to any additional requirements set forth in drawings, samples, descriptions and other Deliverables furnished pursuant to the Contract (to the extent that such additional requirements do not conflict with the Specifications). Supplier further warrants that the Materials shall be free from defects and shall be suitable for the use specified.

THE FOREGOING WARRANTIES ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE, EXCEPT FOR THE USE AS SPECIFIED IN THIS CONTRACT, IF ANY, AND CONSTITUTES THE ONLY WARRANTIES OF SUPPLIER WITH RESPECT TO THE MATERIALS PURSUANT TO THIS CONTRACT.

Company shall present all warranty claims to the Supplier within a reasonable period of time. Company shall use commercially reasonable efforts to preserve the equipment on which the Materials were used and make them available for Supplier's inspection.

Supplier's liability under this warranty and Company's remedy will be limited to refund of the purchase price by a billing adjustment, or replacement of the Supplier Materials involved, at Company's sole option, provided, however, to the extent damage to equipment or property occur as a result of the Materials, whether because the Materials are defective or because the Materials were incorrectly delivered, specified or recommended by Supplier for use, then Supplier will be liable for the cost of repairs, including component replacement(s). Supplier shall not be responsible pursuant to this provision to the extent: (a) the wrong Materials were used for the application due to an act or omission of Company: (2) the damage arises from use of other competitor's (not Supplier's) lubricants; (c) the damage arises from engine or equipment modification unrelated to the Materials; or (d) Company has failed to operate or maintain the equipment as required by the manufacturer and the failure of the Materials to meet the foregoing warranties were not the cause of the damage.

If Supplier fails to promptly make any repair, replacement or re-performance as required herein, Company may conduct the necessary Work at Supplier's expense. Supplier cannot void the warranty for repair, replacement or re-performance performed under these circumstances. Provided that such repair, replacement or re-performance is conducted in a reasonable manner and with workmanship and care consistent with industry standards, Supplier shall reimburse Company for the cost of any warranty repair, replacement or re-performance self-performed by Company.

If any Materials fail to meet the foregoing warranties, Company shall have the right, at Supplier's cost, to perform Emergency replacements or repairs as Company deems necessary to mitigate risks to persons and property and to minimize on-going production losses. The Company agrees to notify Supplier of these Emergency repairs or replacements as soon as practical. Supplier cannot void the warranty for repairs or replacements performed under these Emergency circumstances. Provided that the Emergency repairs or replacements are performed in a reasonable manner and with workmanship and care measured by the industry standards, Supplier shall reimburse Company for the cost of any warranty replacements or repairs made by Company necessitated by an Emergency.

Supplier shall have no obligation as to any Materials, which have been improperly stored or handled, or which have not been operated or maintained according to written instructions provided to Company by Supplier.

ARTICLE 17. [INTENTIONALLY DELETED]

ARTICLE 18. CHANGES TO CONTRACT AND PURCHASE ORDERS

Company may at any time in writing direct changes and/or additions within the general scope of a Purchase Order or this Contract, direct the omission of or variation of Materials and/or Work, or alter the delivery schedule. If any such direction results in a material change in the amount or character of the Materials or Work, an equitable adjustment in the Purchase Order price and other such provisions of this Contract or any relevant Purchase Order as may be affected shall be made and this Contract and/or any relevant Purchase Order shall be modified in writing accordingly. Any claim by Supplier for an adjustment under this Article shall be processed in accordance with the provisions of ARTICLE 30, CLAIM NOTICE AND RESOLUTION PROCEDURE.

No change shall be binding upon Company until a change order is executed by an authorized representative of Company which expressly states that it constitutes a change order to this Contract. THE ISSUANCE OF INFORMATION, ADVICE, APPROVALS, OR INSTRUCTIONS BY ANYONE OTHER THAN THE AUTHORIZED COMPANY REPRESENTATIVE SHALL NOT CONSTITUTE AN AUTHORIZED CHANGE ORDER PURSUANT TO THIS ARTICLE.

ARTICLE 19. INSURANCE

Without limiting any liabilities or any other obligations of Supplier, Supplier shall, prior to commencing Work, secure and continuously carry with insurers having an A.M. Best Insurance Reports rating of A-:VII or better such insurance as will protect Supplier from liability and claims for injuries and damages which may arise out of or result from Supplier's operations under the Contract and for which Supplier may be legally liable, whether such operations are by Supplier or a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. Supplier shall insure the risks associated with the Work and this Contract with minimum coverage and limits as set forth below:

Workers' Compensation. Supplier shall comply with all applicable workers' compensation laws and shall furnish proof thereof satisfactory to Company prior to commencing Work. If Work is to be performed in Washington or Wyoming, Supplier will participate in the appropriate state fund(s) to cover all eligible employees and provide a stop gap (employer's liability) endorsement. Coverage should also provide applicable federal regulations (including, without limitation, FELA, USL&H and the Jones Act).

Employers' Liability. Supplier shall maintain employers' liability insurance with a minimum single limit of \$500,000 each accident, \$500,000 disease each employee, and \$500,000 disease policy limit.

Commercial General Liability. Supplier shall maintain commercial general liability insurance on the most recently approved ISO policy form, or its equivalent, written on an occurrence basis, with limits not less than \$1,000,000 per occurrence/\$2,000,000 general aggregate (on a per location and/or per job basis) and shall include the following coverage:

- a. Premises and operations coverage
- b. Independent contractor's coverage
- c. Contractual liability
- d. Products and completed operations coverage
- e. Coverage for explosion, collapse, and underground property damage
- f. Broad form property damage liability
- g. Personal and advertising injury liability, with the contractual exclusion removed
- h. Sudden and accidental pollution liability, as applicable

Business Automobile Liability. Supplier shall maintain business automobile liability insurance on the most recently approved ISO policy form, or its equivalent, with a minimum single limit of \$1,000,000 each accident for bodily injury and property damage including sudden and accidental pollution liability, with respect to Supplier's vehicles whether owned, hired or non-owned, assigned to or used in the performance of the Work. If applicable, the automobile liability policy will include pollution liability coverage equivalent to that provided under the ISO Pollution Liability Broadened Coverage for Covered Autos endorsement (CA9948) and Motor Carrier Act endorsement (MCS90) shall be attached.

<u>Umbrella or Excess Liability</u>. Supplier shall maintain umbrella or excess liability insurance with a minimum limit of \$5,000,000 each occurrence/aggregate where applicable on a following form basis to be excess of the insurance coverage and limits required in employers' liability insurance, commercial general liability insurance and business automobile liability insurance above. Supplier shall provide Notice to Company, if at any time the full umbrella limit required under this Contract is not available, and will purchase additional limits, if requested by Company.

Transit Insurance. Supplier shall maintain transit insurance covering all worldwide air, land and water shipments, and shall include loading and unloading if such Work is conducted by Supplier or any Subcontractor, and offsite storage, if applicable. Transit insurance shall be provided on an all risk basis to include direct physical loss or damage, including but not limited to loss caused by war, terrorism, strike, riot and civil commotion, and fabrication/repairs. Losses resulting from damage during transit shall be provided to cover full replacement cost of the plant, equipment, machinery, components, supplies and materials being shipped and provide valuation of not less than CIF plus 10%. Deductibles shall not be greater than \$100,000 for any loss. Supplier shall have obtained such transit coverage on or prior to the date on which the exposure to the risk arises. Company will be named loss payee or additional named insured for its interest in the covered property.

Company does not represent that the insurance coverage specified herein (whether in scope of coverage or amounts of coverage) are adequate to protect the obligations of Supplier, and Supplier shall be solely responsible for any deficiencies thereof.

Except for workers' compensation, the policies required herein shall include provisions or endorsements naming Berkshire Hathaway Energy Company, its Affiliates, divisions, subsidiary companies, facility co-owners, and the officers, directors, agents, employees, servants and insurers of the same as additional insureds to the extent of Supplier's indemnification obligations of Company herein. In the event additional Affiliates elect to participate in and under this Contract after the effective date hereof, Supplier shall provide Company updated certificates of

insurance evidencing that it has included such Affiliates as additional insureds to the extent of Supplier's indemnification obligations of Company herein in each of the Supplier's insurance policies. The commercial general liability additional insured endorsement shall be ISO Form CG 20 10 or its equivalent.

To the extent of Supplier's negligent acts or omissions, all policies required by this Contract shall include: (i) provisions that such insurance is primary insurance with respect to the interests of Company and that any other insurance maintained by Company is excess and not contributory insurance with the insurance required hereunder (ii) provisions that the policy contain a cross liability or severability of interest clause or endorsement in the commercial general liability and automobile liability coverage; and (iii) provisions that such policies not be canceled or their limits of liability reduced without: (a) ten (10) days prior Notice to Company if canceled for nonpayment of premium; or (b) thirty (30) days prior Notice to Company if canceled for any other reason. Unless prohibited by applicable law, all required insurance policies shall contain provisions that the insurer will have no right of recovery or subrogation against Company, its parent, divisions, Affiliates, subsidiary companies, facility co-owners, agents, directors, officers, employees, servants, and insurers to the extent of Supplier's indemnification obligations of Company herein, it being the intention of the Parties that the insurance as effected shall protect all of the above-referenced entities evidenced by waiver of subrogation wording.

A certificate of insurance shall be furnished to Company confirming the issuance of such insurance prior to commencement of Work by Supplier.

Notwithstanding anything to the contrary in this Article, Supplier may self-insure for the noted insurance requirements subject to the reasonable approval of Company. Supplier shall furnish Company a letter of self-insurance evidencing Supplier's compliance with this Article.

Supplier shall require Subcontractors who perform Work at the Work Site or other designated delivery location to carry liability insurance (auto, commercial general liability and excess) and workers' compensation/employer's liability insurance commensurate with their respective scopes of work. Supplier shall remain responsible for any claims, lawsuits, losses and expenses included defense costs that exceed any of its Subcontractors' insurance limits or for uninsured claims or losses.

ARTICLE 20. INDEMNIFICATION

SUPPLIER SPECIFICALLY AND EXPRESSLY AGREES TO INDEMNIFY, DEFEND, AND HOLD HARMLESS COMPANY, ALL AFFILIATES, AND THEIR OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS (HEREINAFTER COLLECTIVELY "INDEMNITEES") AGAINST AND FROM ANY AND ALL CLAIMS, DEMANDS, SUITS, LOSSES, COSTS AND DAMAGES OF EVERY KIND AND DESCRIPTION, INCLUDING ATTORNEYS' FEES AND/OR LITIGATION EXPENSES, BROUGHT OR MADE AGAINST OR INCURRED BY ANY OF THE INDEMNITEES RESULTING FROM OR ARISING OUT OF THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF SUPPLIER, ITS EMPLOYEES, AGENTS, REPRESENTATIVES OR SUBCONTRACTORS OF ANY TIER, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OR NONPERFORMANCE OF SUPPLIER'S OBLIGATIONS UNDER THIS CONTRACT OR IN ANY WAY RELATED TO THIS CONTRACT. THE INDEMNITY OBLIGATIONS UNDER THIS ARTICLE SHALL INCLUDE WITHOUT LIMITATION:

- A. LOSS OF OR DAMAGE TO ANY PROPERTY OF COMPANY, SUPPLIER OR ANY THIRD PARTY;
- B. BODILY INJURY TO, OR DEATH OF ANY PERSON(S), INCLUDING WITHOUT LIMITATION EMPLOYEES OF COMPANY, OR OF SUPPLIER OR ITS SUBCONTRACTORS OF ANY TIER: AND
- C. CLAIMS ARISING OUT OF WORKERS' COMPENSATION, UNEMPLOYMENT COMPENSATION, OR SIMILAR SUCH LAWS OR OBLIGATIONS APPLICABLE TO EMPLOYEES OF SUPPLIER OR ITS SUBCONTRACTORS OF ANY TIER.

SUPPLIER'S INDEMNITY OBLIGATIONS OWING TO INDEMNITEES UNDER THIS ARTICLE ARE NOT LIMITED BY ANY APPLICABLE INSURANCE COVERAGE IDENTIFIED IN ARTICLE 19, INSURANCE. SUPPLIER'S INDEMNITY OBLIGATION UNDER THIS ARTICLE SHALL NOT EXTEND TO ANY LIABILITY CAUSED BY THE NEGLIGENCE OF ANY OF THE INDEMNITEES.

THE INVALIDITY, IN WHOLE OR IN PART, OF ANY OF THE FOREGOING PARAGRAPHS WILL NOT AFFECT THE REMAINDER OF SUCH PARAGRAPH OR ANY OTHER PARAGRAPHS IN THIS ARTICLE.

COMPANY AGREES TO IDEMNIFY, DEFEND AND HOLD HARMLESS SUPPLIER AND ITS OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS (HEREINAFTER COLLECTIVELY "SUPPLIER INDEMNITEES") AGAINST AND FROM ANY AND ALL CLAIMS, DEMANDS, SUITS, LOSSES, COSTS AND DAMAGES, INCLUDING REASONABLE ATTORNEYS' FEES AND/OR LITIGATION EXPENSES, FOR OR ON ACCOUNT OF BODILY INJURY TO, OR DEATH OF ANY PERSON(S), INCLUDING WITHOUT LIMITATION EMPLOYEES OF COMPANY, OR OF SUPPLIER OR ITS SUBCONTRACTORS OF ANY TIER, OR LOSS OF OR DAMAGE TO ANY PROPERTY OF SUPPLIER OR OTHERS RESULTING FROM OR ARISING OUT OF THE NEGLIGENT ACTS OR OMISSIONS OF COMPANY, ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, REPRESENTATIVES OR SUBCONTRACTORS OF ANY TIER, THEIR OFFICERS DIRECTORS, EMPLOYEES, AGENTS OR REPRESENTATIVES.

ARTICLE 21. WAIVER OF CONSEQUENTIAL, INCIDENTAL AND PUNITIVE DAMAGES

EXCEPT WITH RESPECT TO LIQUIDATED DAMAGES INCLUDED WITHIN A PURCHASE ORDER IN ACCORDANCE WITH ARTICLE 4, PERIOD OF PERFORMANCE, BUT NOTWITHSTANDING ANY OTHER PROVISION TO THE CONTRARY IN THE CONTRACT, AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL EITHER COMPANY OR SUPPLIER BE LIABLE TO THE OTHER FOR CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES.

ARTICLE 22. [INTENTIONALLY DELETED]

ARTICLE 23. SUPPLIER'S PERSONNEL; DRUGS, ALCOHOL AND FIREARMS

Supplier shall employ in the performance of the Work only persons qualified for the same. Supplier shall at all times enforce strict discipline and good order among its employees and the employees of any Subcontractor of any tier. Supplier shall not permit or allow the introduction or use of any firearms, illegal drugs or intoxicating liquor upon a Company Work Site or any other location where Materials are to be delivered. Supplier shall immediately remove from the Work, whenever requested by Company, any person considered by Company to be incompetent, insubordinate, careless, disorderly, in violation of the above restriction on firearms, illegal drugs or intoxicating liquor, or under the influence of illegal drugs or intoxicating liquor, and such person shall not again be employed in the performance of the Work herein without the written consent of Company.

ARTICLE 24. SUBSTANCE ABUSE; DRUG AND ALCOHOL POLICY

Supplier shall have in place and ensure compliance with a substance abuse/drug and alcohol policy that complies with all applicable federal, state and/or local statutes and regulations. Supplier represents and warrants that Supplier and all Personnel engaged in performing Work for or providing Materials to Company hereunder are in compliance with Supplier's substance abuse/drug and alcohol policy. During the term of this Contract, Supplier shall keep accurate and detailed documentation of its drug policy and all Personnel drug tests, which it shall submit to Company upon request. Supplier shall designate one person to be responsible for compliance with the requirements of this Article and all reporting and inquiries shall be made to a duly authorized representative of Company in a timely manner.

ARTICLE 25. DEPARTMENT OF TRANSPORTATION

Supplier shall ensure Department of Transportation compliance, including but not limited to valid driver's license, equipment inspections, hours of service and all appropriate documentation for any Personnel who may drive while performing Work under this Contract.

ARTICLE 26. BUSINESS ETHICS

Supplier, its employees, officers, agents, representatives and Subcontractors shall at all times maintain the highest ethical standards and avoid conflicts of interest in the performance of Supplier's obligations under this Contract. In conjunction with its performance of the Work, Supplier and its employees, officers, agents and representatives shall comply with, and cause its Subcontractor and its employees, officers, agents and representatives to comply with, all applicable laws, statutes, regulations and codes prohibiting bribery, corruption, kick-backs or similar unethical practices including, without limitation, the United States Foreign Corrupt Practices Act, the United Kingdom Bribery Act 2010, and the Company Code of Business Conduct. Without limiting the generality of the foregoing, Supplier specifically represents and warrants that neither Supplier nor any Subcontractor, employees, officers, representatives or other agents of Supplier have made or will make any

payment, or have given or will give anything of value, in either case to any government official (including any officer or employee of any governmental authority) to influence his, her, or its decision or to gain any other advantage for Company or Supplier in connection with the Work to be performed hereunder. Supplier shall maintain and cause to be maintained effective accounting procedures and internal controls necessary to record all expenditures in connection with this Contract and to verify Supplier's compliance with this Article. Company shall be permitted to audit such records as reasonably necessary to confirm Supplier's compliance with this Article. Supplier shall immediately provide notice to Company of any facts, circumstances or allegations that constitute or might constitute a breach of this Article and shall cooperate with Company's subsequent investigation of such matters. Supplier shall indemnify and hold Company harmless for all fines, penalties, expenses or other losses sustained by Company as a result of Supplier's breach of this provision. The Parties specifically acknowledge that Supplier's failure to comply with the requirements of this Article shall constitute a condition of default under this Contract.

ARTICLE 27. SAFETY AND WORK SITE REGULATIONS

Supplier, when performing any Work or delivering Materials at a Company Work Site or other designated location, shall abide by and adhere to the Company Work Site and safety regulations and requirements, if any, including without limitation environmental protection, loss control, dust control, safety, and security.

Supplier and its Personnel, of any tier, shall maintain accurate and current safety records consistent with industry practice during the performance of Work under this Contract. Supplier and its Personnel, of any tier, shall immediately, and in no event more than twenty-four (24) hours, report to Company all cases of death or injury to any Personnel or any other third-parties during or related to the performance of Work under this Contract. Further, Supplier shall immediately notify, and in no event more than twenty-four (24) hours, report to Company any vehicle accident, OSHA recordable safety incident, or any safety citation issued by any governmental authority. Within forty-eight (48) hours of any safety incident reported to Company, Supplier shall provide Company representative with a preliminary, written accident investigation report detailing the facts of the incident, any known root cause, and action steps being taken by Supplier to further investigate the incident and mitigate future occurrences.

ARTICLE 28. LIENS

Supplier hereby waives its rights to any mechanic's lien, security interest or other lien under any applicable statutes or otherwise for all Materials furnished in connection with this Contract. Prior to Supplier's receipt of each payment under this Contract, Supplier shall (if requested by Company) deliver to Company all affidavits, lien releases, materialmen's certificates and other documents necessary to fully protect Company under the applicable lien laws. If at any time there shall be evidence of the existence of any such lien or claim for Materials furnished by Supplier or any other party in connection with the Contract, Company may use payments then due or to become due under this Contract to discharge such lien or satisfy such claim and may credit such amount against the payment due or to become due to Supplier.

ARTICLE 29. CONFLICTS, ERRORS, OMISSIONS, OR DISCREPANCIES IN CONTRACT DOCUMENTS

Supplier shall advise Company in writing of all conflicts, errors, omissions, or discrepancies among the various documents comprising this Contract immediately upon discovery and prior to Supplier's performing the affected Work. Company shall resolve such conflicts and such resolution shall be final. Anything mentioned in the Specifications and not shown on the drawings, or shown on the drawings and not mentioned in the Specifications, shall be considered as if shown or mentioned in both.

ARTICLE 30. CLAIM NOTICE AND RESOLUTION PROCEDURE

In the event Supplier has a claim or request for a time extension, additional compensation, any other adjustment of the Contract terms, or any dispute arising under the Contract (hereinafter "Claim"), Supplier shall provide Company with Notice of such Claim within thirty (30) calendar Days following the occurrence of the event giving rise to the Claim. Supplier's failure to give Notice as required will constitute a waiver of all of Supplier's rights with respect to the Claim.

As soon as practicable after Claim notification, Supplier shall submit the Claim to Company with all supporting information and documentation. Supplier shall also respond promptly to all Company inquiries about the Claim and its basis.

Any Claim that is not disposed of by mutual agreement between the Parties shall be decided by Company, which shall provide a written decision to Supplier. Such decision shall be final unless Supplier, within thirty (30) days after such receipt of Company's decision, provides to Company a written protest, stating clearly and in detail the basis thereof. Supplier's failure to protest Company's decision within that time period shall constitute a waiver by Supplier of its right to dispute the decision. Even if a Claim arises, Supplier shall continue its performance of this Contract.

ARTICLE 31. SUSPENSION OF WORK

Company may, by written Notice, direct Supplier to suspend deliveries of Materials or performance of any or all of the Work under any Purchase Order for a specified period of time. If such suspension is not caused by the fault or negligence of Supplier, Supplier will be compensated for extra costs in accordance with the provisions set forth in ARTICLE 30, CLAIM NOTICE AND RESOLUTION PROCEDURE. Upon receipt of such Notice to suspend, Supplier shall: (i) discontinue production of the applicable Materials; (ii) place no further orders or subcontracts with respect to the suspended Materials or Work; (iii) suspend all orders and subcontracts with respect to the suspended Materials or Work; (iv) protect and maintain the all Materials for which the suspension applies; and (v) otherwise mitigate Company's costs and liabilities for those Materials or Work suspended; provided, however, that if the suspension is due to Supplier's failure to comply with the Contract or applicable Purchase Order, no such payment shall be made.

ARTICLE 32. TERMINATION FOR CONVENIENCE

Either Party may terminate this Contract, in whole or in part, at any time without cause prior to the expiration of the Term by sending the other Party one hundred and eighty (180) days advance written notice of such termination. Upon such termination Company shall pay Supplier, in full satisfaction and discharge of all liabilities and obligations owed Supplier, an equitable amount for all Materials delivered and received by Company and Work satisfactorily performed by Supplier as of the date of termination.

At any time prior to delivery of the Materials ordered under a particular Purchase Order, Company may, without cause, terminate the Purchase Order in whole or in part by sending to Supplier written electronic notice of such termination. Upon such termination, Company may pay to Supplier an equitable termination fee, to address Subcontractor termination charges and other out-of-pocket costs incurred by Supplier as the result of the termination provided that such costs cannot be reasonably mitigated. Company will not be liable for anticipated profits or overhead based upon Work not yet performed as the date of termination.

ARTICLE 33. TERMINATION FOR CAUSE

Should Supplier fail to promptly or properly perform the Work or any part thereof in accordance with the terms of this Contract, Company may terminate Supplier's right to proceed with the Work. Such termination will be subject to Supplier's receiving forty-eight (48) hour written notice from Company, and Supplier's failure to commence and pursue with due diligence the remedying of any default identified by Company. Additionally, the occurrence of any of the following shall give Company the right to terminate the Contract upon written notice to Supplier: (i) the filing by or against Supplier of a proceeding under any bankruptcy or similar law, unless such proceeding is dismissed within thirty (30) days from the date of filing; (ii) the making by Supplier of any assignment for the benefit of creditors; (iii) the filing by or against Supplier for a proceeding for dissolution or liquidation, unless such proceeding is dismissed within thirty (30) days from the date of filing; (iv) the appointment of or the application for the appointment of a receiver, trustee or custodian for any material part of Supplier's assets unless such appointment is revoked or dismissed within thirty (30) days from the date thereof; (v) the attempt by Supplier to make any adjustment, settlement or extension of its debts with its creditors generally; (vi) the insolvency of Supplier; or (vii) the filing or recording of a notice of lien or the issuance or the obtaining of a levy of execution upon or against a material portion of Supplier's assets, unless such lien or levy of execution is dissolved within thirty (30) days from the date thereof.

Upon the occurrence of any such default, following the applicable process described in this Article, Company shall be entitled to pursue any and all other rights and remedies, including without limitation damages (except to the extent specifically limited by this Contract), that Company may have against Supplier under this Contract or at law or in equity. All rights and remedies provided in this Article are cumulative, and are not exclusive of any other rights or remedies that may be available, whether provided by law, equity, statute or otherwise.

ARTICLE 34. DELAYS

Force Majeure. Neither Party shall be liable for delays caused by a Force Majeure Event; provided, however, that both Parties agree to seek to mitigate the potential impact of any such delay. Any delay attributable to a Force Majeure Event shall not be the basis for a request for additional compensation. In the event of any such delay, the guaranteed delivery date may be extended for a reasonable period not exceeding the time actually lost by reason of the Force Majeure Event. The imposition of any liquidated damages, if applicable, for late delivery of the Materials shall be extended by an amount of time equivalent to the length of time for the Force Majeure Event.

Request for Time Extension. Any request for time extension or additional compensation shall be made in accordance with ARTICLE 30, CLAIM NOTICE AND RESOLUTION PROCEDURE.

ARTICLE 35. COMPLIANCE WITH LAWS

Supplier shall at all times comply with all laws, statutes, regulations, rules, ordinances, codes, and standards applicable to Supplier's performance of the Work including without limitation those governing wages, hours, desegregation, employment discrimination, employment of minors, health and safety. Supplier confirms that its employees and the employees of all Subcontractors employed under the Contract may legally work in the United States.

Without limiting the generality of the foregoing, Supplier and any Subcontractors shall abide by the requirements of 41 CFR §§60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability. Supplier and any Subcontractors shall also abide by the requirements of Executive Order 11246, as amended, to develop and maintain a written affirmative action program (AAP) and Executive Orders 11625 and 13170 (utilization of disadvantaged business enterprises) and the Small Business Act.

Supplier shall indemnify, defend and hold harmless Company, all Affiliates and their directors, officers, employees and agents from all losses, costs and damages by reason of any violation thereof and from any liability, including without limitation fines, penalties and other costs arising out of Supplier's failure to so comply.

ARTICLE 36. CONFLICT MINERALS

Supplier shall provide to Company information on the content of products, manufactured or contracted to be manufactured by Supplier for Company, that utilize or contain the "conflict minerals" wolframite, casserite, columbite-tantalite (coltan), gold and their derivative metals: tantalum, tin and tungsten. The information will be provided in a form that will allow Company to verify compliance with Section 1502 of the Dodd-Frank Act (the U.S. Conflict Minerals Law) and will include evidence of the origin or sources of the conflict minerals. The information will be submitted at or prior to the time of delivery of products in a form approved and/or designated by Company from time to time. Supplier shall obtain Company's prior written consent before providing any products to Company that include conflict minerals originated from the Democratic Republic of Congo or the nine adjoining conflict countries; Angola, Burundi, Central African Republic, the Republic of the Congo, Rwanda, South Sudan, Tanzania, Uganda, and Zambia. Supplier shall maintain effective accounting procedures, internal controls and audit procedures necessary to record the country and place of origin of all minerals included in products provided to Company, and to verify compliance with this Article. Company shall be permitted to audit such records as reasonably necessary to confirm Supplier's compliance with this Article. Supplier shall indemnify and hold Company harmless for all fines, penalties, expenses or other losses sustained by Company as a result of Supplier's breach of this Article.

ARTICLE 37. INDEPENDENT CONTRACTOR

Supplier is an independent contractor, and all persons employed by Supplier in connection herewith shall be employees of Supplier and not employees of Company in any respect. Supplier shall maintain complete control over Supplier's employees.

ARTICLE 38. RELEASE OF INFORMATION; ADVERTISING AND PROMOTION

Supplier shall not publish, release, disclose or announce to any member of the public, press, official body or any other third party any information concerning this Contract, a Purchase Order and/or the Work, or any part thereof, except as required by law. Neither the names of Company, nor Company Work Site, nor any other delivery location designated by Company shall be used in any advertising or other promotional context by Supplier.

ARTICLE 39. CONFIDENTIAL INFORMATION; NONDISCLOSURE

Definition of Confidential Information. The term "Confidential Information" means: (i) proprietary information of Company; (ii) information marked or designated by Company as confidential; (iii) Critical Infrastructure Information and Protected Information of Company; (iv) information, whether or not in written form and whether or not designated as confidential, which is known to Supplier as being treated by Company as confidential; (v) information provided to Company by third parties which Company is obligated to keep confidential (including but not limited to information relating to an identified or identifiable natural person, whether or not such information is publicly available); and (vi) information developed by Supplier in connection with the performance of this Contract.

<u>Nondisclosure</u>. Supplier agrees that it will not disclose Confidential Information, directly or indirectly, under any circumstances or by any means, to any third person without the express written consent of Company.

Nonuse. Supplier further agrees that it will not use Confidential Information except as may be necessary to perform the Work called for by this Contract.

<u>Protection</u>. Confidential Information will be made available by Supplier to its employees only on a "need to know" basis and only after notifying such employees of the confidential nature of the information and after having obligated them to the nonuse and nondisclosure obligations of this Contract. Supplier agrees to take all reasonable precautions to protect the confidentiality of Confidential Information and, upon request by Company, to return to Company any documents which contain or reflect such Confidential Information.

Unless waived by Company, Supplier shall require its employees and Subcontractors of any tier to adhere to these confidential information and nondisclosure terms.

ARTICLE 40. OWNERSHIP OF DESIGNS, DRAWINGS AND WORK PRODUCT

To the extent applicable, the Deliverables prepared or developed hereunder, or other documents or information provided to Company, by Supplier or its employees or agents, or Subcontractors or their employees or agents, including without limitation drawings, specifications, manuals, calculations, maps, sketches, designs, tracings, notes, reports, data, computer programs, models and samples, shall become the property of Company when prepared, and shall, together with any documents or information furnished to Supplier and its employees or agents by Company hereunder, shall be delivered to Company upon request, and, in any event, upon termination or final acceptance of the Work. Company shall have full rights and privileges to use and reproduce said items in its operation, maintenance, improvement and replacement of Company's assets, and shall have full rights and privileges to share the same with its contractors, agents, officers, directors, employees, joint owners, affiliates and consultants who are assisting Company with same, without regard to any markings that may denote a confidential or proprietary interest in the said items. To the extent that any Deliverables include or incorporate preexisting intellectual property of Supplier, Supplier hereby grants Company a fully paid, perpetual license to use such intellectual property for Company's operation, maintenance, modification, improvement and replacement of the Company's assets the fullest extent necessary to accomplish those purposes, including the right to share same with Company's contractors, agent, officers, directors, employees, joint owners, affiliates and consultants. Promptly upon Company's request, Supplier shall provide all tools and information (including without limitation applicable passwords and authorization codes) necessary to ensure Company receives the full benefit of the Work.

ARTICLE 41. PATENT AND COPYRIGHT INDEMNITY

Supplier shall indemnify, defend, and hold harmless Company, its directors, officers, employees, and agents against and from all claims, losses, costs, suits, judgments, damages, and expenses, including attorneys' fees, of any kind or nature based on a claim that the Materials and Deliverables constitute an infringement of any patent, copyrighted or uncopyrighted work. If notified promptly in writing and given authority, information and assistance, and contingent upon Company not taking any position adverse to Supplier in connection with such claim, Supplier

shall defend, or may settle at its expense, any suit or proceeding against Company so far as based on a claimed infringement and Supplier shall pay all damages and costs awarded therein against Company due to such breach.

In case any Materials or Deliverables are determined in such suit to constitute such an infringement and the use of said Materials or Deliverables are enjoined, Supplier shall, at its expense and through mutual agreement between Company and Supplier, either procure for Company the right to continue using said Materials or Deliverables, replace same with non-infringing materials or modify the same so it becomes non-infringing.

ARTICLE 42. ELECTRONIC COMMERCE

In addition, Company is open to maximizing the cost effective utilization of standards based electronic commerce technologies, compatible with legacy computer systems, including but not limited to requirements for desk top ordering, cataloging, documentation, payments, and performance monitoring.

In the event Supplier has implemented electronic commerce capabilities, Supplier shall ensure such electronic commerce (e-commerce website) interface shall be available to Company.

Supplier's (and its Subcontractor's) Lead Times for Materials shall be stated in any available e-commerce website. At a minimum, Supplier shall update the Lead Times on a quarterly basis or as changes in Lead Times are known to Supplier. Supplier Lead Times shall be no greater than those agreed in the Contract.

Supplier and its Subcontractors shall provide Company with 24-hour a day access to Supplier web based catalog and electronic documentation library. Supplier's electronic commerce business model shall include: (i) processes for electronic invoicing and payment systems; (ii) development of an electronic inspection library for certificates, test reports, shipment release documents, etc.; (iii) tracking and tracing of Company shipments from its Suppliers; and (iv) electronic links to its Suppliers engineering files, drawings, documentation, installation/operations manuals, and product alerts.

Supplier electronic commerce platform should support a seamless interface with any e-commerce enterprise platform specified by Company. Supplier shall keep an electronic historical file of all transactions executed under this Contract and shall maintain such records for the duration of this Contract plus an additional three (3) years. Supplier shall have a computerized inventory and/or production management system and/or Purchase Order tracking/expediting system, capable of interfacing with Company systems.

ARTICLE 43. ASSIGNMENT

Neither Party shall assign this Contract or any part hereof, or any rights or responsibilities hereunder without the prior written consent of the other Party, and any attempted assignment in violation hereof shall be void.

ARTICLE 44. SUBCONTRACTS

Supplier shall not subcontract any or all of the Work without prior written consent of Company, which shall not be unreasonably withheld. Supplier shall be fully responsible for the acts or omissions of any Subcontractors of any tier and of all persons employed by them, shall maintain complete control over all such Subcontractors, and neither the consent by Company, nor anything contained herein, shall be deemed to create any contractual relation between the Subcontractor of any tier and Company.

ARTICLE 45. NONWAIVER

The failure of either Party to insist upon or enforce strict performance by the other of any of the terms of this Contract, or to exercise any rights herein shall not be construed as a waiver or relinquishment to any extent of the Party's right to enforce such terms or rights on any future occasion.

ARTICLE 46. SEVERABILITY

Any provision of this Contract prohibited or rendered unenforceable by operation of law shall be ineffective only to the extent of such prohibition or unenforceability without invalidating the remaining provisions of this Contract.

ARTICLE 47. APPLICABLE LAW AND VENUE

In the event of any matter or dispute arising out of or related to a Contract, it is agreed between the Parties that such Contract shall be interpreted in accordance with the substantive and procedural laws (including statute of

limitations provisions) of the jurisdiction of the principal business address of the applicable Company. With respect to Affiliates, this shall mean the principal business address of the Affiliate as identified in Exhibit ___. The laws of such jurisdiction will govern the interpretation, validity and effect of this Contact without regard to the place of execution, place of performance thereof, or any conflicts of law provisions. Any litigation between the Parties arising out of or relating to the Contract will be conducted exclusively in appropriate courts of such jurisdiction, and Supplier consents to jurisdiction by such courts.

TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THE CONTRACT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

ARTICLE 48. FOR WORK PERFORMED IN CALIFORNIA, THE FOLLOWING JURY TRIAL WAIVER AND ARBITRATION PROVISION APPLIES. TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS CONTRACT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED. IF A WAIVER OF JURY TRIAL IS DEEMED BY ANY COURT OF COMPETENT JURISDICTION TO NOT BE ENFORCEABLE FOR ANY REASON. THEN TO THE FULLEST EXTENT PERMITTED BY LAW. EACH OF THE PARTIES HERETO AGREE TO BINDING ARBITRATION. SUCH ARBITRATION SHALL BE IN ACCORDANCE WITH THE RULES AND PROCEDURES OF THE AMERICAN ARBITRATION ASSOCIATION (AAA). NOTWITHSTANDING ANY AAA RULES AND PROCEDURES, OR ANY OTHER PROVISION OF ANY STATE OR FEDERAL LAWS, THE PARTIES AGREE THAT THE ARBITRATORS SHALL NOT CONSIDER OR AWARD PUNITIVE DAMAGES AS A REMEDY. UPON THE COMPANY'S REQUEST, AAA SHALL PROVIDE THE PARTIES A LIST OF ARBITRATORS EACH OF WHOM HAVE EXPERIENCE AND EXPERTISE APPLICABLE TO THE WORK. UPON EACH OF THE PARTIES' RECEIPT OF SUCH LISTS, EACH PARTY SHALL HAVE TEN (10) DAYS TO SELECT AN ARBITRATOR. THE TWO SELECTED ARBITRATORS SHALL THEN SELECT A THIRD ARBITRATOR WITHIN THIRTY (30) DAYS FROM THE DATE THE INITIAL TWO ARBITRATORS WERE SELECTED AND THE MATTER SUBJECT TO ARBITRATION SHALL BE ARBITRATED WITHIN SIXTY (60) DAYS AFTER THE SELECTION OF THE THIRD ARBITRATOR.

ARTICLE 49. EQUIPMENT FUND

As consideration for this Contract, Supplier hereby agrees to provide Company the following:

A one-time \$250,000 equipment fund ("Equipment Fund") to be used solely by Company for improving lubrication best practices. These funds are intended for use for projects such as setting up bulk storage tanks and totes, and lubricant storage room upgrades.

With regard to the funds above, Company shall submit to Supplier: (i) a request for the projects to be implemented by the participating Affiliates for approval prior to initiating any project, such approval not to be unreasonably delayed or denied; and (ii) the receipt or invoice documenting the project expenditure. Reimbursement by Supplier shall be made to Company within thirty (30) days of receiving the written proof of payment. The above funds are available for use during the term of this Contract and are to be used exclusively by the participating Affiliates in accordance herein. Further, the funds cannot be used for purchase of Product. Supplier reserves the right to audit Company's usage of the above fund amounts. Company shall not be entitled to claim and Supplier shall not be liable to convey any unused fund amounts remaining at time of termination or expiration of this Contract. Fund payments hereunder are subject to the amortization schedule attached hereto and incorporated herein as Exhibit B.2. Upon early termination of the Contract, Company shall reimburse Supplier on a pro-rated basis in accordance with the Exhibit B.2 schedule.

ARTICLE 50. ENTIRE CONTRACT; DOCUMENTS INCORPORATED BY REFERENCE

This Contract and any referenced exhibits, appendices, schedules and attachments constitute the complete agreement between the Parties. All understandings, representations, warranties, agreements and any referenced attachments, if any, existing between the Parties regarding the subject matter hereof are merged into and superseded by this Contract, which fully and completely expresses the agreement of the Parties with respect to the subject matter hereof. Any Specifications, drawings, schedules or other exhibits or documents listed in this Contract,

including applicable Purchase Orders issued pursuant to the terms hereof, are incorporated by reference into this Contract.

In the event of a conflict between (i) any Specifications, Deliverables, drawings, schedules or other attachment or exhibit to this Contract, and (ii) the above terms and conditions of this Contract, the above terms and conditions of this Contract shall take precedence and control.

Company assumes no responsibility for any understanding or representation made by any of its employees, officers or agents during or prior to the negotiations and execution of this Contract, unless such understanding or representation is expressly stated in the Contract.

The Parties intend that the terms and conditions of this Contract, its referenced attachments, and any Purchase Order that may be issued relating to this Contract should be complementary with each other; however, in the event of a conflict between the terms and conditions of any Purchase Order and those of the Contract, the terms and conditions of this Contract shall take precedence and control over any Purchase Order; provided, however, that where this Contract indicates commercial terms that may be amended by the Purchase Order, the Purchase Order shall be deemed to govern with respect to such conflicting commercial terms.

ARTICLE 51. EXECUTION AND EFFECTIVE DATE

(Date Executed)

This Contract has been executed by duly author date of execution by Company.	ized representatives of the Parties and shall be effective as of
SUPPLIER:	COMPANY:
Phillips 66 Company	Berkshire Hathaway Energy Company
By: (Signature)	By: (Sindlettin)
Name: Seven FACA. (Type or Print)	Narmaureen E. Sammon St. VF St. Chile! Administrative Office
Title: Myuner Finisher.	Title:

(Date Executed)

EXHIBIT A MATERIALS AND SPECIFICATIONS LUBRICATION SUPPLY

Supplier shall provide Materials to Company in accordance with Exhibit(s) B and the following.

Company and Supplier Locations

Supplier shall deliver Materials to the Company locations identified in Appendix 4 or to other locations as may be specified by Company. Although Appendix 4 identifies the Supplier office nearest to each Company location, Company shall have the option to work with any Supplier office it so chooses.

Delivery

Standard Order Lead Times – All Stock Items are expected to be delivered within 5 business days, excluding the day the order is placed. All Non-Stock or Specialty Items are expected to be delivered within 7 working days, excluding the day of order placement.

- Stock Items: Are considered as all packaged products including drums, totes, pails, and cases.
- Non-Stock Items (or Specialty Items): Are considered as bulk turbine oils and bulk Transformer Oil.
- Emergency Order Fees: In the instances where Supplier is expected to deliver a Stock Item in less than the standard 5 business days, Supplier reserves the right to add a \$100.00 emergency fee to such orders. In instances where bulk turbine oils are expected to be delivered in less than the required 7 business days, Supplier reserves the right to add a \$1,500.00 emergency fee to such orders. Any special freight or handling charges incurred by Supplier due to emergency procedures shall be relayed to Berkshire Energy for approval prior to shipment.

All deliveries shall occur during normal hours of operation (local time) for the applicable delivery location and be pre-approved and coordinated with the appropriate delivery site prior to delivery. Alternatively, the Parties may agree to coordinate regularly scheduled delivery times or to schedule deliveries outside of normal hours of operation.

Supplier acknowledges that certain Company locations have pre-planned overhauls or major projects that may require greater assistance, support, and more Materials than standard operating needs. Supplier agrees to support such requirements.

The Parties agree and understand that there may be extenuating or emergency circumstances which require delivery requirements outside of the parameters set forth above. The Parties agree to work together to mitigate the impacts of such extenuating or emergency circumstances and shall work together to coordinate all other deliveries.

Communication

Supplier agrees to assign a single and primary point of contact to manage Company's account (includes all Affiliates). Responsibilities of such contact shall include but not be limited to: serving as a point of escalation for problem resolution, co-coordinating reporting efforts, managing broad communication efforts, addressing pricing issues, and general account management duties.

Supplier will be available during normal business hours 0700 to 1700 local time Monday through Friday and will handle all standard work issues during such time. However, Supplier shall also be available twenty four (24) hours a day, seven (7) days a week to provide parts and services to Company under any extenuating or emergency circumstances.

(Refer to Contract Article 3, Purchase Orders of the contract for order confirmation requirements.)

Appendix 3 contains Company and Supplier and contacts for each location. Changes to such contact listing may be updated from time to time by the Parties as necessary and shall not require a formal written notice or change order.

Identification and Cross Reference of Materials

Supplier shall ensure and provide proof, when requested, of ability of Material to be interchangeable with incumbent manufactures.

If requested by Company, Supplier shall provide specific information to Company regarding Materials including country of origin and manufacturing locations.

Supplier shall assist Company in cross referencing existing components at Company locations with approved manufacturers. Supplier shall expedite resolution of compatibility and fit issues on recommended replacement components. Supplier shall adequately assure Company material management and maintenance departments that recommended alternative products can be installed without modification to Company systems.

Meetings

Integrated supply chain meetings shall be held as deemed necessary by the Company, but normally shall not be more than once per quarter. Past and future supply performance will be utilized to review the production and supply schedule and discuss any delays, unusual conditions or critical items, which have affected or could affect production capacity and/or delivery performance.

Reporting

As requested by Company, Supplier shall provide to Company within five (5) business days the following reports:

- a. Total Company or Affiliate spend over a given time period
- b. Total spend by plant or location over a given time period
- c. Total spend by user over a given time period
- d. Total spend by plant or location over a given time period (specified by material)
- e. Total usage by Company or Affiliate (specified by material)
- f. Total usage by plant or location (specified by material)
- g. Total usage by user (specified by material)

Electronic Commerce

Refer to Article 42 of the Contract for electronic commerce requirements.

Material Packaging

Unless otherwise agreed to by the Parties, Company requires the following packaging requirements:

A packing list for materials received by Company must be provided with each shipment. The packing list shall 1) include, at minimum, the information listed below and 2) have such information (except for employee name) encoded in a barcode(s).

- Company material or stock item number
- PO number and/or release number
- PO Line Item Number
- Quantity shipped
- Manufacturer name and catalog number
- Name of Company employee that placed the order

Each carton must be labeled with the following information:

- Company's material item number (barcode and character data)
- Short description of the item
- Quantity (barcode and character data)
- Unit of measure
- P. O. number and/or release number

Each carton or standard package must be identified with the specified barcode material label.

Packaging:

- All Material received at Company locations must be packaged for easy identification and sorting as follows:
- Each product will be packaged separately in individual bags or boxes and marked with Supplier's part number, manufacture part number, size and description, and Company Purchase Order number and stock number (where applicable).
- All orders will be separated and grouped together by Purchase Order number.
- Company and Supplier will agree on items that will require full case quantities.
- Partial order shipments on critical products are encouraged. Supplier shall ship stocked quantities immediately. Supplier shall fill backorders when the additional material arrives. Supplier shall not hold orders until they are complete.
- Supplier shall clearly mark on the exterior of the box what is inside the box. Ideally, the stock number and quantity should be on the exterior of the box.
- Packing sheets shall be clearly identified, and easy to find.
- Supplier shall not place loose or small objects inside large boxes. Supplier shall clearly identify loose material.
- Supplier shall mark fragile materials clearly on the outside of boxes and package accordingly.
- Where possible, Supplier shall use heavy cardboard boxes for shipments.

General

Company shall have the right at any time to change the requirements set forth in Exhibits A as necessary to ensure that all Company requirements are met.

For technical specifications, please refer to the following:

Attachment 1 - PacifiCorp Lube Oil Technical Specification

Attachment 2 - MidAmerican Energy Lube Oil Technical Specification

Appendix 1 to Master Materials Supply Contract

SPECIAL CONDITIONS APPLICABLE TO PACIFICORP CIPS COVERED ASSETS AND CRITICAL INFRASTRUCTURE INFORMATION NERC CIPS REQUIREMENTS

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC) CRITICAL INFRASTRUCTURE PROTECTION STANDARDS (CIPS)

Capitalized terms used herein shall have the same meaning as set forth in the Contract, unless the context may otherwise require.

Defined Terms:

The terms used in these Special Conditions applicable to PacifiCorp shall have the following meaning:

Company's Criteria shall mean applicable requirements used as the baseline for determining whether an individual is a restricted person, as set forth on Schedule 1, "Background Check Criteria."

Company's Facilities shall mean any facilities owned, operated or otherwise controlled by Company, which require Company authorization to obtain access.

Critical Infrastructure Information shall mean information concerning CIPS Covered Assets that: (i) relates to the production, generation or transmission of energy; (ii) could be useful to a person planning an attack on critical infrastructure; and (iii) provides strategic information beyond the geographic location of the critical asset, and which is identified as Critical infrastructure Information by Company.

Sensitive Personnel shall mean all Personnel with authorized unescorted physical access or authorized cyber access to Company's CIPS Covered Assets.

Unescorted Personnel shall mean all Personnel with authorized unescorted physical access to Company's Facilities.

SECTION 1: ACCESS TO COMPANY'S FACILITIES

1.1 Requirements for Unescorted Personnel and Sensitive Personnel

Company shall specify in the Scope of Work whether or not the Work or Services under this Contract requires: (i) authorized unescorted physical access to Company's Facilities (i.e., use of Unescorted Personnel); or (ii) authorized unescorted physical access or authorized cyber access to Company's CIPS Covered Assets (i.e., use of Sensitive Personnel). For all Personnel who require such access, Supplier shall:

- (a) Ensure that Unescorted Personnel and Sensitive Personnel have passed the background checks outlined in <u>subsection 1,3(a)</u> consistent with the Company's Background Check Criteria set forth on <u>Schedule 1</u> prior to requesting unescorted physical access and/or cyber access to Company's Facilities and/or CIPS Covered Assets, as applicable;
- (b) Ensure that Unescorted Personnel and Sensitive Personnel complete Company provided or approved initial CIPS compliance training prior to requesting unescorted physical access and/or cyber access to Company's Facilities and/or CIPS Covered Assets, as applicable;
- (c) Ensure that Unescorted Personnel and Sensitive Personnel have passed Supplier's drug and alcohol exam and are in compliance with Supplier's substance abuse/drug and alcohol policy as outlined in Section 2; and
- (d) Keep accurate and detailed documentation to confirm completion dates for background checks, all CIPS compliance training (initial and annual training, to the extent applicable), and drug tests,

and certify to Company such documentation by completing a Contractor/Vendor Information Form, attached as Schedule 2 hereto, for each Unescorted Personnel or Sensitive Personnel.

Supplier shall not allow any Unescorted Personnel or Sensitive Personnel who have not met the foregoing requirements of this subsection 1.1 to perform Work or Services, unless Supplier has received prior written consent from Company.

1.2 Additional Access Requirements Specific to Sensitive Personnel

In addition to the access requirements outlined in <u>subsection 1.1</u>, with respect to all Sensitive Personnel, Supplier also shall:

- (a) Ensure that Sensitive Personnel (and any Personnel with access to Critical Infrastructure Information) are informed of and comply with Company's Critical Infrastructure Information requirements contained in the Contract, including the additional requirements applicable to Critical Infrastructure Information set forth in Section 4 herein, and any confidentiality agreement previously executed by Supplier, if applicable;
- (b) In addition to the initial CIPS compliance training requirement outlined in <u>subsection</u> 1.1(b), ensure that Sensitive Personnel complete Company provided or approved CIPS compliance training within Company's prescribed training window, and not less than on an annual basis; and
- (c) Immediately report both (i) Sensitive Personnel terminations for cause and (ii) all other Sensitive Personnel terminations or changes in employment status for those who no longer require access, to the Company's Technology Resource Center (TRC). The TRC is available by calling either (503) 813-5555 or (801) 220-5555.

Supplier shall not allow any Sensitive Personnel who have not met the foregoing requirements of this <u>subsection 1.2</u> to perform Work or Services, unless Supplier has received prior written consent from Company.

1.3 Personnel Screening/Background Check Requirements for Unescorted Personnel and Sensitive Personnel

For all Unescorted Personnel or Sensitive Personnel, the following requirements must be met by Supplier:

- (a) Supplier shall conduct, at Supplier's cost and expense, the requisite background checks for the current and past countries of residence of all Unescorted Personnel and Sensitive Personnel consistent with the Company's Background Check Criteria set forth on <u>Schedule 1</u>. All background checks will be conducted in accordance with federal, state, provincial, and local laws, and subject to existing collective bargaining unit agreements or other agreements, if any.
- (b) Following the initial background check to obtain authorization for access, the background checks shall be updated no less frequently than every seven (7) years or upon request by Company, and shall, at a minimum, consist of a social security number identity verification and seven (7) year criminal background check, including all convictions for a crime punishable by imprisonment for a term exceeding one (1) year.
- (c) Supplier shall ensure that each of the Unescorted Personnel and Sensitive Personnel sign an appropriate authorization form prior to background checks being conducted, acknowledging that the background check is being conducted, and authorizing the information obtained to be provided to Company.
- (d) Company has the right to audit Supplier's records supporting each Contractor/Vendor Information Form, attached as <u>Schedule 2</u>, submitted to Company, including background check results, and to verify that the requisite background checks and drug tests were performed consistent with Company's Background Check Criteria set forth on <u>Schedule 1</u>. Supplier shall provide Company with all requested records supporting Contractor/Vendor Information Forms within a reasonable time after receiving such

request, and in the form requested by Company, but not longer than three (3) business days following the date of such request.

- (e) For purposes of this Contract, a background check is considered valid pursuant to the Company's Background Check Criteria, set forth on <u>Schedule 1</u>, if it was completed within two (2) years prior to the date on which the Supplier signed a Contractor/Vendor Information Form for each Unescorted Personnel and Sensitive Personnel. Regardless of when performed, all background checks shall be documented pursuant to the requirements set forth in this <u>subsection 1.3</u>.
- (f) In the event Company notifies Supplier of the impending expiration of the background check of any Unescorted Personnel or Sensitive Personnel, Supplier shall provide an updated Contractor/Vendor Information Form reflecting a refreshed background check within twenty (20) days of receipt of the notice, in order to avoid revocation of such person's access.

1.4 Supplier Designee

Supplier shall designate one person to be responsible for compliance with the requirements of this <u>Section 1</u> and all reporting and inquiries (other than Sensitive Personnel terminations or changes in employment status) shall be made via e-mail to <u>CIPS-Contracting@PacifiCorp.com</u>. Sensitive Personnel terminations or changes in employment status should be reported to the TRC pursuant to <u>subsection 1.2(c)</u>.

SECTION 2: SUBSTANCE ABUSE/DRUG AND ALCOHOL POLICY

2.1 Drug Testing

- (a) Supplier shall have and ensure compliance with a substance abuse/drug and alcohol policy that complies with all applicable federal, state and/or local statutes and regulations. Supplier shall subject each of the Personnel to a drug test at Supplier's sole cost and expense. Such drug test shall, at a minimum, be a five (5) Panel Drug Test, which should be recognizable at testing labs as a "SamHSA5 panel at 50NG THC cut-off."
- (b) For any Personnel who have had a recent drug test, such recent drug test shall be documented pursuant to the previous paragraph. Supplier warrants that Supplier and the Personnel are in compliance with Supplier's substance abuse/drug and alcohol policy.
- (c) During the course of Work or Services performed under this Contract, Supplier shall keep accurate and detailed documentation of its drug policy and all Personnel drug tests, which it shall submit to Company upon request.
- (d) Supplier shall designate one (1) person to be responsible for compliance with the requirements of this <u>Section 2</u> and all reporting and inquiries shall be made to a duly authorized representative of Company in a timely manner.

SECTION 3: DEPARTMENT OF TRANSPORTATION COMPLIANCE

Supplier shall ensure Department of Transportation compliance, including but not limited to valid driver's license, equipment inspections, hours of service and all appropriate documentation for any Personnel who may drive while on assignment to Company.

SECTION 4: ADDITIONAL REQUIREMENTS APPLICABLE TO CRITICAL INFRASTRUCTURE INFORMATION

Confidential Information of Company labeled as Critical Infrastructure Information shall be protected consistent with the following requirements: (a) Critical Infrastructure Information shall be protected at all times, either by appropriate storage or having it under the personal observation and control of a person authorized to receive it; (b) each person who works with protected Critical Infrastructure Information is personally responsible for taking proper precautions to ensure that unauthorized persons do not gain access to it; (c) reasonable steps shall be taken to minimize the risks of access to Critical Infrastructure Information by unauthorized personnel (when not in use, Critical Infrastructure Information shall be secured in a secure container, such as a locked desk, file cabinet or facility where security is provided); (d) documents or material containing Critical Infrastructure Information may be reproduced to

the minimum extent necessary, consistent with the need to carry out the Work or Services, provided that the reproduced material is marked and protected in the same manner as the original material; (e) material containing Critical Infrastructure Information should be disposed of through secured shredding receptacles or other secured document destruction methods; (f) Critical Infrastructure Information shall be transmitted only by the following means: (i) hand delivery; (ii) United States first class, express, certified or registered mail, bonded courier, or through secure electronic means; (iii) e-mail with encrypted file (such as, WinZip with password) (the password should not be included in e-mail, but should be delivered by phone or in an unrelated e-mail not mentioning the document name; password-protected Microsoft Office documents do not meet the encryption requirements); and (g) documents or material containing Critical Infrastructure Information shall be returned to Company or certified destroyed upon completion of the Work or Services.

End of Appendix 1

Schedule 1

SPECIAL CONDITIONS APPLICABLE TO PACIFICORP BACKGROUND CHECK CRITERIA

Company has a policy, "Badge and Access Standards," which outlines Company standards, procedures, compliance policies and workforce responsibilities regarding badges and access to all PacifiCorp controlled areas. Access to Company's Facilities is subject to this policy and requires access to be granted on an asneeded basis after completion of the required background check and training requirements.

In addition, the Company is required to comply with the mandatory Critical Infrastructure Protection Standards (CIPS) issued by the North American Electric Reliability Corporation (NERC) and approved by the Federal Energy Regulatory Commission on January 17, 2008. The CIPS were adopted to ensure that electric utilities, as part of the nation's critical infrastructure, are able to sustain and secure against vulnerabilities that may threaten the electric system and the utilities that operate it. Specifically, Standards CIP-001 through CIP-009 provide a cyber security framework for the identification and protection of assets critical to the reliable operation of the bulk electric system (i.e., CIPS Covered Assets).

In order to ensure compliance with CIPS and the Company's access policy, Company requires that all Personnel who will have authorized unescorted physical access to Company's Facilities (i.e., Unescorted Personnel) and/or authorized unescorted physical access or authorized cyber access to CIPS Covered Assets (including control centers, substations, generation plants, critical cyber assets, etc.) (i.e., Sensitive Personnel) have the appropriate security clearance and security training. A background check of Supplier's Unescorted Personnel or Sensitive Personnel will be considered valid pursuant to these Criteria if it was completed within two (2) years prior to the date the Supplier signed a Contractor/Vendor Information Form for each such person.

Individuals who are considered "restricted persons" may not have unescorted access to Company's Facilities or CIPS Covered Assets. An individual will be considered a "restricted person" if the person meets any of the following criteria:

- Is currently under indictment for a crime punishable by imprisonment for a term exceeding one (1)
 year;
- Has been convicted (within the past seven (7) years) in any court of a crime punishable by imprisonment for a term exceeding one (1) year;
- Is currently a fugitive from justice; or
- Is an alien illegally or unlawfully in the United States.

If an individual's background check indicates that he/she meets any of the above criteria, the individual will be considered a "restricted person" and unescorted access to Company's Facilities or CIPS Covered Assets will not be authorized.

End of Schedule 1

Schedule 2

SPECIAL CONDITIONS APPLICABLE TO PACIFICORP

Contractor / Vendor Information Form (CIF)

	Contractor / Vendor Inform	ation	
Com	pany Name:		
	ess:		
Phon	e: Fax:		
Conti	ractor / Vendor Name:(Include middle initial, if applicable		
	(Include middle initial, if applicabl	e: First, Mi	iddle, Last)
(1)	Successfully Passed Employer's Drug and Alcohol Exam? Date Completed:	? Yes	No
	(Yes - mm/dd/yyyy)		
(2)	Data Completed:	Yes	No
	(Yes - mm/dd/yyyy)		
(3)	Successfully Completed PacifiCorp's Security trainings? Date Completed:	Yes	No
	(Yes - mm/dd/yyyy)		
	oyer and provided upon Company's request ger Signature of Contractor / Vendor Employer		Date
wana	ger Signature or Contractor / Vendor Employer		Date
	PacifiCorp Approvals		
Signa	ture of PacifiCorp Hiring Manager		Date
Printe	d Name of PacifiCorp Hiring Manager		
	ntractor / Vendor did not pass the Background Check or Druception is requested provide reason for exception:	g and Alco	ohol Exam, but
Accep	oted by PacifiCorp Chief Compliance Officer	Date	

Contractor / Vendor will not be permitted access to Company controlled areas without the completion of Drug/Alcohol, Background verifications and completion of security training. Send the completed form electronically to Corporate Physical Security at "_Access Administrators" (accessadmins@pacificorp.com) for ID badge issuance. The form may be attached to a request for physical access.

End of Schedule 2

Appendix 2

to Master Materials Supply Contract

Special Conditions Applicable to MidAmerican Energy Company CIPS Covered Assets and Protected Information NERC CIPS Requirements

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC) CRITICAL INFRASTRUCTURE PROTECTION (CIP) STANDARDS

Capitalized terms used herein shall have the same meaning as set forth in the Contract, unless the context may otherwise require.

1. PERSONNEL RISK ASSESSMENTS, TRAINING, SECURITY AWARENESS, INFORMATION PROTECTION, PERSONNEL CHANGES AND DOCUMENTATION

Supplier and all Personnel employed by or otherwise engaged by Supplier with authorized cyber or authorized unescorted physical access to Company's (hereinafter also referred to as "MidAmerican") CIPS Covered Assets and/or Protected Information, shall comply with (a) all requirements of the NERC CIP standards, including and not limited to (b) MidAmerican's Personnel Risk Assessment Program, Training Program, Security Awareness Program, and Information Protection Program, incorporated herein by this reference, or Supplier's programs for personnel risk assessment, training, security awareness and information protection, if MidAmerican has reviewed and verified and approved the same.

In conjunction with the NERC CIP standards, Supplier shall ensure NERC CIP compliance and communicate all requirements to Personnel. Supplier shall (a) conduct personnel risk assessments consisting of an identity verification (at a minimum social security verification of U.S. citizens) and seven (7) year criminal background check and provide written certification as specified in Section 2 of these Special Conditions for all Personnel (except if access is only to non-public CIP sensitivity classification Protected Information); (b) fully inform and train all Personnel on requirements of CIP standards prior to accessing CIPS Covered Assets and/or Protected Information and shall quarterly reinforce security awareness. If Supplier feels any of MidAmerican's training or security awareness materials are inappropriate or desires to use Supplier's training or security awareness materials, Supplier shall provide Notice to MidAmerican, and provide the training and/or security awareness documents and any improved practice to MidAmerican for review, verification and approval; (c) furnish MidAmerican a list that shows by name of Personnel, the completion date of each training course, and what materials were utilized; (d) furnish MidAmerican a list describing the security awareness materials used and dates and how the security materials were distributed; (e) provide MidAmerican with a list of Personnel authorized to handle MidAmerican's protected CIP information that shows Personnel's information sensitivity classification clearance level and assure Personnel adhere to Protected Information handling procedures; (f) report Personnel terminations for cause immediately to MidAmerican but not longer than twelve (12) hours from time of termination and report all other Personnel terminations or changes in employment status for those who no longer require access within twelve (12) hours from time of occurrence; and (g) keep accurate and detailed documentation to confirm compliance with requirements of NERC CIP standards as specified in Section 3 of these Special Conditions.

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Supplier shall designate one person to be responsible for compliance with the Contract requirements. Reporting relating to this section shall be to MidAmerican's designated authorized representative.

In case of conflict or inconsistency between MidAmerican's programs and requirements of the NERC CIP standards, the NERC CIP requirements shall govern.

2. CRIMINAL BACKGROUND CHECK, IDENTITY VERIFICATION AND RELATED SCREENING

If requested by MidAmerican, Supplier shall conduct, at its sole cost and expense, criminal background checks for the current and past counties of residence on all Personnel that have cyber or unescorted physical access to MidAmerican facilities or North American Electric Reliability Corporation CIPS Covered Assets or Protected Information. The background checks shall be updated no less frequently than every seven (7) years or for cause. At a minimum, an identity verification (social security number verification for U.S. citizens) and seven (7) year criminal background check including felony or misdemeanor convictions involving: (a) violence to persons/property; (b) theft/fraud; (c) drug/alcohol; or (d) traffic/other are required, employment history, education verification and professional certifications may also be required by MidAmerican. All background checks will be conducted in accordance with federal, state, provincial, and local laws, and subject to existing collective bargaining unit agreements or other agreements, if any. Supplier shall not allow persons who have not met MidAmerican's criteria to perform Work or Services or access CIPS Covered Assets or Protected Information, unless Supplier has received written authorization from MidAmerican. Supplier shall supply a certification that meets MidAmerican's criteria for all Personnel employed or engaged by Supplier. Supplier shall ensure that all Personnel sign an appropriate authorization form prior to criminal background checks being conducted, acknowledging the background check is being conducted and authorizing the information obtained to be provided to MidAmerican.

It is understood and agreed that MidAmerican may review Supplier's policies, background checks and related documentation upon request, subject to applicable federal, state and/or local statutes or regulations. MidAmerican may also request that Supplier provide an ongoing and updated list of persons that have been denied authorization to perform Work or Services for MidAmerican or denied access to MidAmerican assets, information or facilities.

3. AUDIT

Supplier shall keep such full and detailed documentation as may be necessary for substantiation of compliance with this Contract. The method for maintaining documentation shall be satisfactory to MidAmerican. MidAmerican or its designee shall be afforded access to, and allowed to make copies of all Supplier's records, books, correspondence, instructions, drawings, agreements, memoranda and similar data that, in MidAmerican's judgment, relate to this Contract. This documentation will be available at Supplier's regular place of business during normal working hours or provided to MidAmerican in a reasonable alternative manner as may be requested by MidAmerican. Supplier shall preserve all such documentation for a period of three (3) years after completion of the Work or Services or longer where required by law. These requirements shall also apply to all Personnel, of any tier, and to all companies that are wholly or partially owned by or are affiliated with Supplier.

End	of	Appendix	·
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Appendix 3 to Material Supply Contract

Special Conditions Applicable to NV Energy CIPS Covered Assets and Protected Information NERC CIPS Requirements

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION (NERC) CRITICAL INFRASTRUCTURE PROTECTION (CIP) STANDARDS

Capitalized terms used herein shall have the same meaning as set forth in the Contract, unless the context may otherwise require.

1. PERSONNEL RISK ASSESSMENTS, TRAINING, SECURITY AWARENESS, INFORMATION PROTECTION, PERSONNEL CHANGES AND DOCUMENTATION

Supplier and all Personnel employed by or otherwise engaged by Supplier with authorized cyber or authorized unescorted physical access to Company's (hereinafter also referred to as "NV Energy") CIPS Covered Assets and/or Protected Information, shall comply with (a) all requirements of the NERC CIP standards, including and not limited to (b) NV Energy's Personnel Risk Assessment review and NERC/CIP Training Program, incorporated herein by this reference, or Supplier's programs for personnel risk assessment, training, security awareness and information protection, if NV Energy has reviewed and verified and approved the same.

In conjunction with the NERC CIP standards, Supplier shall ensure NERC CIP compliance and communicate all requirements to Personnel. Supplier shall (a) conduct personnel risk assessments consisting of an identity verification (at a minimum social security verification of U.S. citizens) and seven (7) year criminal background check and provide written certification as specified in Section 2 of these Special Conditions for all Personnel (except if access is only to non-public CIP sensitivity classification Protected Information); (b) fully inform and train all Personnel on requirements of CIP standards prior to accessing CIP Covered Assets and/or Protected Information and shall quarterly reinforce security awareness. If Supplier feels any of NV Energy's training or security awareness materials are inappropriate or desires to use Supplier's training or security awareness materials, Supplier shall provide Notice to NV Energy, and provide the training and/or security awareness documents and any improved practice to NV Energy for review, verification and approval; (c) furnish NV Energy a list that shows by name of Personnel, the completion date of each training course, and what materials were utilized; (d) furnish NV Energy a list describing the security awareness materials used and dates and how the security materials were distributed; (e) provide NV Energy with a list of Personnel authorized to handle NV Energy's protected CIP information that shows Personnel's information sensitivity classification clearance level and assure Personnel adhere to Protected Information handling procedures; (f) report Personnel terminations for cause immediately to NV Energy but not longer than twelve (12) hours from time of termination and report all other Personnel terminations or changes in employment status for those who no longer require access within twelve (12) hours from time of occurrence; and (g) keep accurate and detailed documentation to confirm compliance with requirements of NERC CIP standards as specified in Section 3 of these Special Conditions.

Supplier shall designate one person to be responsible for compliance with the Contract requirements. Reporting relating to this section shall be to NV Energy's designated authorized representative.

Revision 02.20.2014

In case of conflict or inconsistency between NV Energy's programs and requirements of the NERC CIP standards, the NERC CIP requirements shall govern.

2. CRIMINAL BACKGROUND CHECK, IDENTITY VERIFICATION AND RELATED SCREENING

If requested by NV Energy, Supplier shall conduct, at its sole cost and expense, criminal background checks for the current and past counties of residence on all Personnel that have cyber or unescorted physical access to NV Energy facilities or North American Electric Reliability Corporation CIP Covered Assets or Protected Information. The background checks shall be updated for cause but no less frequently than every seven (7) years or for cause. At a minimum, an identity verification (social security number verification for U.S. citizens) and seven (7) year criminal background check including felony or misdemeanor convictions involving: (a) violence to persons/property; (b) theft/fraud; (c) drug/alcohol; or (d) traffic/other are required, employment history, education verification and professional certifications may also be required by NV Energy. All background checks will be conducted in accordance with federal, state, provincial, and local laws. and subject to existing collective bargaining unit agreements or other agreements, if any. Supplier shall not allow persons who have not met NV Energy's criteria to perform Work or Services or access CIPS Covered Assets or Protected Information, unless Supplier has received written authorization from NV Energy, Supplier shall supply a certification that meets NV Energy's criteria for all Personnel employed or engaged by Supplier. Supplier shall ensure that all Personnel sign an appropriate authorization form prior to criminal background checks being conducted, acknowledging the background check is being conducted and authorizing the information obtained to be provided to NV Energy.

It is understood and agreed that NV Energy may review Supplier's policies, background checks and related documentation upon request, subject to applicable federal, state and/or local statutes or regulations. NV Energy may also request that Supplier provide an ongoing and updated list of persons that have been denied authorization to perform Work or Services for NV Energy or denied access to NV Energy assets, information or facilities.

3. AUDIT

Supplier shall keep such full and detailed documentation as may be necessary for substantiation of compliance with this Contract. The method for maintaining documentation shall be satisfactory to NV Energy. NV Energy or its designee shall be afforded access to, and allowed to make copies of all Supplier's records, books, correspondence, instructions, drawings, agreements, memoranda and similar data that, in NV Energy's judgment, relate to this Contract. This documentation will be available at Supplier's regular place of business during normal working hours or provided to NV Energy in a reasonable alternative manner as may be requested by NV Energy. Supplier shall preserve all such documentation for a period of four (4) years after completion of the Work or Services or longer where required by law. These requirements shall also apply to all Personnel, of any tier, and to all companies that are wholly or partially owned by or are affiliated with Supplier.

End of Appendix3

Appendix 4 - Company Locations CalEnergy

Dhiston	Location Name	Physical Address	Identify your local office closest to Company location	Will standard delivery occur via your truck or common cerrier?
CalEnergy Operating Corporation	Warehouse/Auto Shop/ MAC	7030 Gentry Road, Calipatria CA 92233	Kenny Strickland Inc./Coachella, CA	Distributor's truck
Yuma Cogeneration Associates	Yuma Cogeneration Associates	280 North 27th Drive, Yuma, AZ 85964	Union Distributing/Phoenix AZ	Distributor's truck
Cordova Energy Center	Cordova Energy Center	24712 182 Avenue N, Cordova, IL 61242	MOLO OII/Eldridge, IA	Distributor's truck
Saranac Power	Saranac Power	99 Weed Street Extension, Plattsburgh, NY 12901	Farrell Oil Co./Wilton, NY	Distributor's truck
Power Resources	Power Resources	500 Revindry Road, Big Spring, TX 79720	Pilot Logistics/Odessa, TX	Distributor's truck

Appendix 4 - Company Locations MidAmerican Energy

Company	Location Name	Physical Address	Mailing Address	ð	State	Zip Code	Identify your local office closest to Company location	Will standard delivery occur via your truck or common carrier?
MidAmerican Energy Company	Walter Scott Energy Center	7215 Navajo Street		Council Bluffs	4	51501	Nebraska Iowa Supply, Omaha NE	
MidAmerican Energy Company	Neal Energy Center (Neal South)	2761 Port Neal Circle		Salix	Ā	51052	Nebraska Jowa Supply, Omaha NE	
MidAmerican Energy Company	Neal Energy Center (Neal North)	1051 260 th Street		Sergeant Bluff	4	51054	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Riverside Generating Station	6001 State Street		Bettendorf		52722	MOLO, Eldridge IA	Distributor's truck
MidAmerican Energy Company	Louisa Generating Station	8602 172 nd Street		Muscatine	⋖	52761	MOCO, Eldridge IA	Distributor's truck
MidAmerican Energy Company	Greater Des Moines Energy Center	4401 Carlisle Road	A CONTRACTOR OF THE PARTY OF TH	Pleasant Hill		50327	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Avoca Service Center	361 South Elm	PO Box 98	Avoca	Г	51521	Nebraska Jowa Supply. Omaha NE	Distributor's truck
MidAmerican Energy Company	Bettendorf Service Center	5955 Fenno Road		Bettendorf		52722	MOLO, Eldridge IA	Distributor's truck
MidAmerican Energy Company	Cedar Rapids Service Center	602 D Avenue NW		Cedar Rapids		52405	MOLO, Eldridge IA	Dia'ributor's truck
MidAmerican Energy Company	Clarksville	212 S Main Street		Clarksville		50619	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Council Bluffs Service Center	3003 South 11th Street		Council Bluffs	4	51501	Nebraska lows Supply, Omsha NE	Distributor's truck
MidAmerican Energy Company	Delaware Service Center	4845 NE 22nd Street		Des Moines	4	51303	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Des Moines Gas LNG-LPG Plant	4845 NE 17th Court		Des Moines	N/	50313	Boyer Petroleum. Des Moines IA	Distributor's truck
MidAmerican Energy Company	Greenfield Service Center	2351 E County Line Road		Des Moines	¥.	50320	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Pleasant Hill Energy Center	3191 SE 45th Street		Pleasant Hill		50317	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	River Hills Energy Center	105 Watson Powell Way		Des Moines	Ā	50309	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Sycamore Energy Center	6141 NW Beaver Drive	B	Johnston	¥.	50131	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Walnut Ridge Service Center	10510 Douglas Avenue		Urbandale	IA N	50322	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Two Rivers Service Center	201 SE 1st Street		Des Moines	7 4	60605	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Fort Dodge Service Center	637 S 22nd Street		Fort Dodge	IA	50501	Boyer Petroleum, Des Moines IA	Distributor's truel:
MidAmerican Energy Company	Iowa City Service Center	1630 Lower Muscatine Road		lowa City	IA	52240	MOLO, Eldridge IA	Distributor's track
MidAmerican Energy Company	LeMars	1171 Prospect Street SW		Le Mars	IA	51031	Nebraska lows Supply. Omsha NE	Distributor's truck
MidAmerican Energy Company	Oskaloosa Service Center	2411 North Market Street		Oskaloosa	IA	52577-1855	Boyer Petroleum, Dos Moines IA	Distributor's truck
MidAmerican Energy Company	Ottumwa Service Center	302 S Vine Street		Ottumwa	N N	52501	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Red Oak	311 Alix		Red Oak	M	51566	Nebraska lows Supply, Omeha NE	Distributor's truck
MidAmerican Energy Company	Rock Island Service Building & Garage	2811 5th Avenue	W 40 10 10 10 10 10 10 10 10 10 10 10 10 10	Rock Island	II	61201	MOLO, Eldridge 1A	Distributor's truck
MidAmerican Energy Company	Rock Valley Energy Center	1700 HWY 18		Rock Valley	IA	51247	Nebraska lows Supply, Omsha NE	Distributor's truck
MidAmerican Energy Company	Schaller Wind Farm	506 W 2nd Street		Schaller	IA	51053	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Shenandoah	900 W Ferguson Road		Shenandoah	A	51601	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Sloux City Service Center	223 S lowa Street		Sloux City	NA!	51101	Nebraska lovra Supply. Onaba NE	Distributor's truck
MidAmerican Energy Company	Sloux City Fleet Maintenance Center	3990 Southgate Drive		Sioux City	N N	51106	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Sioux Falls Service Center	1200 S Blauvelt		Sioux Falls	SD	57105	Nebrasia Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Storm Lake Service Center	1018 N Vestal Street		Storm Lake	IA	50588	Boyer Petroleum, Des Moines IA	Distributor's Iruck
MidAmerican Energy Company	Urbandale Business Center	4299 Northwest Urbandale Dr		Urbandale	100	50322-7916	Boyer Petroleum, Des Moines IA	Distributor's truck
MidAmerican Energy Company	Vermillion	1103 317th Street	419 W Cherry Street	Vermillion	SD	27069	Nebraska Iowa Supply, Omaha NE	Distributor's truck
MidAmerican Energy Company	Waterloo Service Center	260 Fairview Avenue		Waterloo		50703	Bover Petroleum: Des Moines IA	Distributor's track

Appendix 4 - Company Locations Northern Natural Gas

					Identify your local office closest to	Will standard delivery occur via your truck or
Location Name	Location Address	Clty C	State	Zip Code	Company location	common carrier?
NNG2 GARNER	2315 YALE AVE	Garner	IA	50438	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 VENTURA	2415 270TH STREET	Garner	IA	50438	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 GUTHRIE CENTER	2421 DOGWOOD AVENUE	GUTHRIE CENTER	IA	50115	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 HUBBARD	21497 290TH STREET	HUBBARD	IA	50122	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 OAKLAND	46299 U.S. HIGHWAY 6	Oakland	IA	51560-4557	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 OGDEN	608 210TH STREET	Ogden	IA	50212	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 PAULINA	4213 J AVE	Paullina	IA	51046	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 REDFIELD	24282 G AVENUE	Redfield	IA	50233	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 WATERLOO CDC	1508 E SCHROCK RD.	Waterloo	IA	50701	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 BUSHTON	785 STATE RD. 4	Bushton	KS	67427	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 CLIFTON	2930 GAS CITY ROAD	Clifton	KS	66937-0160	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 CUNNINGHAM	20307 NE 150TH AVE	Cunningham	KS	67035	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 HOLCOMB	9480 W HWY 50	Holcomb	KS	67851	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 SUBLETTE	21947 HWY 83	Kismet	KS	67859	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 LYONS	1420 17TH ROAD	Lyons	KS	67554	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 MACKSVILLE	145 F ROAD	Macksville	KS	67557-5808	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 MULLINVILLE	14049 17TH AVENUE	Mullinville	KS	67109	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 TESCOTT	685 NORTH 40TH ROAD	Tescott	KS	67484-0156	Parker Oil, Witchita KS	Common Carrier/Distributor Truck
NNG2 NEGAUNEE	118 US HWY 41 E	NEGAUNEE	MI	49866	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 CARLTON	1995 NORTHERN NATURAL GAS	Carlton	MN	55718-9147	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 FARMINGTON CDC	4685 212TH STREET WEST	Farmington	MN	55024	Northern Energy, Gaylord Mi	Common Carrier/Distributor Truck
NNG2 ST. CLOUD	241 4TH AVENUE N - SUITE 120	Foley	MN	56329	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 NORTH BRANCH	6579 420TH STREET	Harris	MN	55032-2116	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 OWATONNA	2586 SE 28TH STREET	Owatonna	MN	25060	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 WELCOME	1186 HIGHWAY 263	Welcome	MN	56181	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 WILLMAR	605 23RD STREET SW	WILLMAR	MN	56201	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 WRENSHALL	2301 COUNTY ROAD #1	Wrenshall	MN	55797	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck
NNG2 BEATRICE	30694 US HWY 77	Beatrice	NE	68310-7709	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 SOUTH OMAHA	8300 CEDAR ISLAND ROAD	Believue	NE	68147	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 PALMYRA	1170 NORTH 10TH ROAD	Palmyra	NE	68418-9795	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck

Appendix 4 - Company Locations Northern Natural Gas

NNG2 S. SIOUX CITY	5111 DAKOTA AVE	S. Sioux City	NE	92176	Boyer Petroleum, Des Moines IA	Common Carrier/Distributor Truck
NNG2 BEAVER	5 MI E of ELMWOOD ON HWY 27 Be	aver	ОК	73932	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 CHEYENNE	17 Mi NW OF ELK CITY	CHEYENNE	Ю	73628	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 ROGER MILLS	17 Mi NW OF ELK CITY ON RAND CH	eyenne	Ю	73628	Pilot Logistics, Oklahoma City OK	Common Carrier/Distributor Truck
NNG2 CLARK	1025 1ST AVE W	CLARK	as as	57225	Homax Oil, Gillette WY	Common Carrier/Distributor Truck
NNG2 HARRISBURG	47493 272ND STREET	Harrisburg	as as	57032	Homax Oil, Gillette WY	Common Carrier/Distributor Truck
NNG2 ANDREWS	915 NW MUSTANG DRIVE	ANDREWS	TX.	79714	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 BIG LAKE	104 N PLAZA AVENUE	Big Lake	ХL	76932	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 CANADIAN	10910 SOUTH US HWY 83	Canadian	TX XT	79014	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 KERMIT	2 Mi S of KERMIT ON HWY 18	KERMIT	TX	79745	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SPRABERRY	13401 COUNTY ROAD 230 EAST N	Midland	XI.	90/6/	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SKELLYTOWN	1000 1ST STREET	Skellytown	ТX	79080	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SPEARMAN	8 MI S OF SPEARMAN ON FM 760 Sp	Spearman	TX.	79081	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 SUNRAY	7174 FM 119	Sunray	TX	79086	Pilot Logistics, Odessa TX	Common Carrier/Distributor Truck
NNG2 PLATTEVILLE	5557 COUNTY ROAD D	Platteville	MI	53818	Northern Energy, Gaylord MI	Common Carrier/Distributor Truck

Appendix 4 - Company Locations PacifiCorp

Division	Location Name	Physical Address	Melfing Address	City	State	State Zip Code	identify your local office dosest to Company location	Will standard delivery occur via your truck or common cerrier?
PacifiCorp Energy	Jim Bridger Plant	8 MI NE Point of Point of Rocks	P.O. Box 158	Point of Rocks	W	82942	Homax, Rock Springs WY	Distributor's truck/Common Carrier
PacifiCorp Energy	Dave Johnston Plant	1591 Tank Farm Road	1591 Tank Farm Road	Glenrock	W	82637	Homax, Casper WY	Distributor's truck/Common Carrier
PacifiCorp Energy	Wyodak Plant	48 Wyodak Road	48 Wyodak Road	Gillette	M	82716	Homax, Gillette WY	Distributor's truck/Common Carrier
PacifiCorp Energy	Naughton Plant	Hwy 189 S of Kemmerer	Hwy 189 5 of Kemmerer	Kemmerer	W	83101	Homax, Rock Springs WY	Distributor's truck/Common Carrier
PacifiCorp Energy	Gadsby Plant	1359 West North Temple	1359 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
PacifiCorp Energy	Carbon Plant	Intersection 6 & 191	P.O. Box 839	Helper	5	84526	Thomas Petroleum, Price UT	Distributor's truck
PacifiCorp Energy	Huntington Plant	Hwy 31 W of Huntington	P.O. Box 680	Huntington	5	84528	Thomas Petroleum, Price UT	Distributor's truck/Common Cerrier
PacifiCorp Energy	Hunter Plant	Hwy 10 S of Castle Dale	P.O. Box 569	Castle Dale	5	84513	Thomas Petroleum, Price UT	Distributor's truck/Common Carrier
PacifiCorp Energy	Blundell Geothermal Plant	Roosevelt Hat Springs Rd	P.O. Box 769	Milford	5	84751	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
PacifiCorp Energy	Currant Creek Plant	2096 W. 300 N	2096 W. 2300 N.	Mona	5	84645	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
PacifiCorp Energy	Lake Side Plant	1825 N Pioneer Lane	1825 N Ploneer Lane	Vineyard	5	84058	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
PacifiCorp Energy	Chehalis Plant	1813 Bishop Road	1813 Bishop Road	Chehalis	WA	98532	Small & Sons, Auburn WA	Distributor's truck/Common Cerrier
Pacific Power	Walla Walla	650 E. Douglas	650 E. Douglas	Walla Walla	WA	99362	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Walla Walla Tech Ops	75 Duncan Lane	75 Duncan Lane	Walls Walls	WA	99362	Small & Sons, Auburn WA	Distributor's truck/Common Carrier
Pacific Power	Yakima Hub Warehouse	500 North Keys Road	500 North Keys Road	Yakima	WA	98901	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Bend	328 NE Webster	328 NE Webster	Bend	OR	10776	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Bend Tech Op's	201 SW Columbia	201 SW Columbia	Bend	OR	97702	Small & Sons, Auburn WA	Distributor's truck/Common Cerrier
Pacific Power	Albany Hub Warehouse	830 Old Salem Road	830 Old Salem Road	Albany	OR	97321	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Grants Pass	1420 Williams Hwy	1420 Williams Hwy	Grants Pass	OR	97527	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Medford Hub Warehouse	925 S. Grape Street	925 S. Grape Street	Medford	OR	97501	Small & Sons, Auburn WA	Distributor's truck
Pacific Power	Yreka Warehouse	300 S. Main	P O Box 248	Yreka	ð	96097	Small & Sons, Auburn WA	Distributor's truck
Rocky Mountain Power	Casper Hub Warehouse	2840 E Yellowstone Hwy	2840 E Yellowstone Hwy	Casper	š	82602	Homax, Casper WY	Distributor's truck
Rocky Mountain Power	Buffalo	62 T W Road	125 S. Main	Buffalo	š	82834	Homax, Gillette WY	Distributor's truck
Rocky Mountain Power	Cody	226 W Yellowstone Avenue	226 W Yellowstone Avenue	Cody	¥	82414	Homax, Casper WY	Distributor's truck
Rocky Mountain Power	Evanston	105 Commerce Or	105 Commerce Dr	Evanston	¥	82930	Homax, Rock Springs WY	Distributor's truck
Rocky Mountain Power	Rock Springs Warehouse	415 N Street	415 N Street	Rock Springs	ķ	82901	Homax, Rock Springs WY	Distributor's truck
Rocky Mountain Power	Preston Hub Warehouse	S09 S. 200 E.	P O Box 432	Preston	2	83263	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Montpeller	425 Clay Street	425 Clay Street	Montpeller	2	83254	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Smithfield	780 North Main Street	780 North Main Street	Smithfield	5	84335	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Layton	635 North 1200 West	635 North 1200 West	Layton	5	84041	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Salt Lake Metro	1569 West North Temple	1569 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Olstributor's truck
Rocky Mountain Power	Salt Lake Tech Ops	1359 West North Temple	1359 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck/Common Cerrier
Rocky Mountain Power	Salt Lake Toolroom	1569 West North Temple	1569 West North Temple	Salt Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Salt Lake Hub Warehouse	1569 Wast North Temple	1569 West North Temple	Saft Lake City	5	84116	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Jordan Valley	12840 Pony Express Road	12840 Pony Express Road	Draper	5	84020	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Rocky Mountain Power	Park City	5280 Silver Creek Road	P.O. Box 1508	Park City	5	84060	Thomas Petroleum, No. Saft Lake, UT	Distributor's truck
Rocky Mountain Power	Santaquin	355 West 200 North	355 West 200 North	Santaquín	5	84655	Thomas Petroleum, Cedar City UT	Distributor's truck
Rocky Mountain Power	Moab	320 North 1st West	320 North 1st West	Moab	5	84532	Thomas Petroleum, Price UT	Distributor's truck
Rocky Mountain Power	Richfleld Hub	710 North Main	710 North Main	Richfield	5	84701	Thomas Petroleum, No. Salt Lake, UT	Distributor's truck
Energy West Mining Co.	Deer Creek Mine	3 Miles N. of Huntington Plant		Huntington	5	84528	Thomas Petroleum, Price UT	Distributor's truck
Energy West Mining Co.	Coal Prep Plant	3,5 Miles S of Castle Dale		Castle Dale	5	84523	Thomas Petroleum, Price UT	Distributor's truck
Bridger Coal Co.	Bridger Mine	9.5 Miles NE of Point of Rocks	P.O. Box 68	Point of Rocks	*	82942	Homax, Rock Springs WY	Distributor's truck

Appendix 4 - Company Locations NV Energy

	NV ENERGY			
	Company Facilities	ities		
Facility Name	Street Address	City	State	Zip Code
Harry Allen	14601 North Las Vegas Boulevard	LasVegas	Nevada	89124
Chuck Lenzie	13605 Chuck Lenzie Court	North Las Vegas	Nevada	89168
Walter M. Higgins	1275 Primm Boulevard	Primm	Nevada	61068
Goodsprings	1.5 Miles Southeast of Goodsprings	Jean	Nevada	89019
Reid Gardner	501 Wally Kay Way	Moapa	Nevada	89025
North Valmy	I-80 Stonehouse Exit	Valmy	Nevada	89438
Fort Churchill	1000 Sierra Way	Yerington	Nevada	89447
Frank A. Tracy	1799 Waltham Way	Sparks	Nevada	89343
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Attachment 1 - PacifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

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Benefit	Calchun 2100 - 2880 PPW, Phospherus 670 -1160 PPM, Silven 8 PPM, Suffur 3850 PPM, Zine 1660 - 1360 PPM	Sedan 10 - 30 PPM, Calchum 2100 - 2000 PPM, Phospheria 670 - 1160 PPM, Sullar 3600 PPM, Zhe: 1050 - 1300 PPM, Silbon 8 PPM	Beren 3 PPM, Calelum 3170 - 4050 PPM, Phesphone 1180 - 1440 PPM, 63toon 6 PPM, Suffer 4800 PPM, Zine 1310 - 1670 PPM	Celcium 2200 - 2810 PPM, Melyfelerum 10 PPM, Phospherus 700 - 400 PPM, Suthr 2400 PPM, Zhe 770 - 530 PPM, Tilankon 64 - 117 PPM	Calchian 2000 - 2810 PPM, Meldedenum 80 PPM, Phesphorus 700-800 PPM, Sulfur 3000 PPM, Zivo 770 - 800 PPM, Tilarium 84- 117 PPM	Berken 10 - 30 PPM, Calchen 1920 - 2480 PPM, Neigledenum 60 PPM, Phosphores 700 - 800 PPM, Sulfer 3600 PPM, Zhe 770 - 860 PPM	Bartan 10 - 30 PPM, Calctum 1900 - JAID PPM, Mojbelerum 80 PPM, Phospirova 700 - 800 PPM, Balber 3800 PPM, Zhe 770 - 660 PPM	Berten 10 - 30 PPM, Calaban 1930 - 2400 PPM, Majdolenum 80 PPM, Phosphana 700 -400 PPM, 8uffur 3000 PPM, Zhr. 770 - 540 PPM	Celeban 2100 - 2650 PPM, Prospherus 850 - 1016 PPM, 8uffur 8600 PPM, Zho 365 - 650 PPM	Calchun 2200 - 2010 PPM, Phosphoras 600 - 5100 PPM, Bushar 3800 PPM, Zhe 1000 - 1260 PPM	Calchan 2280 - 2810 PPM, Frospherus 920 -1100 PPM, Bullar 3800 PPM, Zho 1000 - 1280 PPM	Catalan SDPPK, Phosphora SACPPK, Bullur SCOPPK, Zho 385- 430 PPM	Calchan 30 PPM, Phosphons 340 PPM, 8ufter 600 PPM, Zhe 389 - 450 PPM	Caldan SOPPM, Phesphens 340PPM, Bullur 600PPM, Zhrc 385- 430 PPM	Calolum SOPPM, Phrespheria 340PPM, Suffur 700PPM, Zhu 386 - 450 PPM	Calchan SOPPIA, Phosphorus SKOPPIA, Bullar GOOPPIA, Zho 385- KXO PPIA	Calcium 60 PPM, Phospharus 340 PPM, Guilur 600 PPM, Zine 365 - 430 PPM	Calakan 50 PPM, Phospharus 340 PPM, Sullur 600 PPM, Zhe 366 - 430 PPM	Calchan 80 PPM, Phosphora 340 PPM, Sufur 600 PPM, Zhe 365 - 450 PPM	Custam 50 PPM, Phesphase 340 PPM, Sultar 600 PPM, Zhe 385 - 430 PPM	Catalan 2180 - 2850 PPM, Phosphorus 650 -1010 PPM, Zhe
Parities .	441F (DOC)	(2003) 144	457 (5000)	448F (DOC)	ette (poci)	(200) 107	421 (coc)	444F (DOC)	satr (coc)	484F (DOC)	484F (DOC)	378F (COC)	388F (COC)	416F (COC)	(200) 925	West (DOC)	(bool Jase	441 (000)	(200c) HZP	(000) SME	41SF (DOC)
Particular	*	4	9	Ŋ	7	7	7	7	*	#	117	100	*	*	4	*	414	野	18	9	¥
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Consortialiss Product	Fleet Supreme &C 15W-40	Fleet Supreme EC 10W-30	HC Power D 19W-40	Karshill GT-1 HP Motor Cill 10/K-40	Nandall GT-1 Pull Symbolic Moler Cll BW-10	Buper All Seeson Synbland SM-20	Buper All Sesson Byrishmd SW-30	Super All Sesson Byribland 10M-30	TEX Heavy Duly Mater OI 190V	TSK Heery Daty Mater OI 30	TSK Henry Duty Mater Of 40	Magaflow AW HVI Hydraufic Off 22	Megaflow AW HVI Hydraulic OII 32	Megaflow AW HM Hydrauflo Og 48	Megaflow AW Hydrouth: CIII	Megation AW Hydradic Off 100	Megaffow AW Hydraulic OII	Megaftow AW Hydraufie Oil 46	Megaflow AW Hydrauffo Off	Megallow AW Hydraulic Oil 22	Powerd/As 10W
	Current API specification as of January 2012.	Current API appositionation as of Jenuery 2012.	Currert API spedification as of Jerusny 2012.	Current API specification as of January 2012.	Current API equalification as of January 2012.	Currert API opecification as of Jenuery 2012.	Currert API epecification on of Jensery 2012.	Currert API specification as of January 2012.	Not for use in engines, hydraufichtunerribelons only.	Damet API specification as of January 2012.	Commany used in Desixt Diseal 2-cycle dhead angines	Law lampershire applications.	Low temperature applications.	Low temperature applications.	Anthone uppleations, hydradic pumps and melan.	Anthreas applications, hydraulic pumps and motors.	Artherer apploatons, hydrauto purrpe and motors.	Antheser applications, hydradic pumps and molers.	Anthewar applications, hydrode pumps and molern.	Anthees applications, hydraulic pumps and motors.	Commonty used as a hydrautic oil in mobile seutement
	OR, Mineral, Engine, SAE 19840 API GJ4,Cl-4.	OS, Minural, Engine, SAE 19840 API CJ4,CJ-4, CJ-4, SM	OL Mineral Engine, SAE 19W40 APICHA PLUS, CH, CH4, SL	CII, Minural, Englina, SAE 10M40, API SN / Dose instituted ILSAC GF-5	ele, Ergire, SAE SW30, API SW /	CC, Mineral or Symbatic or Symbatic Bland, Engline, SAE SW20, API SM / N.SACI GF-5	Cd, Minumi or Synthelio or Synthelio Blans, Engine, SAE SW20, API SW / ILAAC GF-6	COL, Mineral or Systematic or Systemate Blend, Engine, BAE 10W30, API SN / ILBAC GI-6	Mineral, Hydraulie, BAE 10, Minimum VI 105.	Ol, Mineral, Engire, SAE 30 API CF, CF.2, CD	OS, Mineral, Engites, SAE 30 API CF, CF2, CD	OO, Mineral, Hystradis & General Purpose, Anthree, R&O, IGO VG 22, Mineral VI 135, Wide Tementon Roman, Park Polish <- 65 F	mal, Nydaudic & General Purpose, R&O, 190 VG 32, Minimum W 135, managina Remai, Paur Pabe 4, 45 F	erd, Hydratic & General Purposa, r. REO, ISO VO 48, Minman VI 135, meanships Renus, Prast Public - 46 F	Oll, Mineral, Hydraulie & General Purpose, Anthres S. R&O. ISO VID 150, Minimum VI 95	Of, Mineral, Hydrautic & Garneral Purpose, Anthress, R&C, ISO VG 100, Minbrum VI 05	Of, Mines, Hydraule & General Purpose, Arthurur, R&O, 180 VG 64, Minimum VI 98	Of, Mheral, Hydraulie & General Purpose, Artheser, Riso, ISO VIG 48, Mehrum VI 95	Ol, Minut, Hydrafic & General Purpose, Artheres, R&O, 180 VG 32, Mihiman VI 65	Oll, Mineral, Hydraulic & General Purpose, Anthrese, R&O, 180 VG 22, Minteran VI 95	Cil, Mineral, Drhe Trein & Transentadon, &AE 10, Alben C-4, Catamiller TO-4, Euzlid equipment, Vermitte equipment, Violens (Editor) M-2050-8,
Occurio Labricus Specifical	74, Mineral, Engine, 3A PLUB, CH-4, CH-4, 8M	Of, Mineral, Englished, Ship	Di Marai En	Of, Mount, B ust meet ILSA	Of, Full Synths ILSAC GP-5	Of, Minera Engine, SA	Of, Mine Engine, S	E AND MA	Of, Mine	Of, Ma	Of Man	A Marie	A Maria	0	A B	O. E	Ot. M	A 4	O. B.	A	Off, Mrs Affican C Kemeter

Attachment 1 - PacifiCorp Lube Oil Techincal Specification This specification to be used for all Berkehire Hathaway Energy affiliates except MidAmerican Energy

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	Oll, Mitnerd, Geer, Odvo Treih and Transmisolint, 8AE 20, Alboon C-4, Calespillar TO-4, Euclid equipment, Normalius equipment, Volviers (Salant) M-2550-8, 27 TE-MIL DOS for Immus convertor ferranciasions.	Oll Minesi, Geer, Dive Train and Trasantesion, BAE SQ, Casepiler TO-4, Excisi equipment, Yennathu equipment, Victore (Exter) M-2080-8	Or, Where, Malpurpee, Trensmission & Hydrude, Trento Faul Dive - San OEM Specification Registration	OS. Syrahute, SAE BD, Trumunisation, Henry Dub Merual, API Sarvice GL-1, MT-1	Flad, Automatic Transmission, Mercan & Decre	Publ, Automotio Tremententes, Type F, Ford 8804-400233-F	PAA, Automalie Transminelan, Marcen Y, Albac CA	Olt, Mineral, Hydraufie & Germani Purpose, Ner- zine Antheeur, REO, 180 VG 32, Minimum VI 85	Oll, Mihurul, Hydraulio & Gerarral Puppetes, Net- zbra Anthrear, R&O, ISO VG 46, Mirhnum VI 85	Oll, Mineral, Hydraulie & German Purpose, Mar- phre Anthones, RAO, ISO VG Ed, Minhaum VI 95	(2), Mhurzi, Pydrude & General Purposs, Mor- dre Astineer, R&C, ISD VG 100, Minimum VI 95	Ol, Mineral, Hydrudio & General Puspose, Non- dro Ardinear, nan-EP, R&O, BO VG 190, Albinum VI 65	Od, Mineral, Physicade & General Puppea, Nor- zbe Arthwar, Nor-II P, NAC, ISO VB 220, Minimum VI 96	Off, Mineral, Hydrautic & General Purpose, Nor- zine Anthoner, non-EP, 7460, ISO VG 300, Minimum VI 85	Cit, Mineral, Turbha, Steam, R&O, IBO VG 69, Mineman VI 100	OL Mines, Tuckin, Seam, RAO, ISO VG 48, Mehrun VI 100	CR, Merent, Turbine, Steam, R&O, 180 VG 32, Milhitan W 100, milhirans RPvort 600 km, mishran TOST 12:000 km,
Coliffic	Ossementy used as a termination of hearth exercise and heavy equipment	Cerromaty used as a final other of its wath straining and heavy sepalperent.	Community used in all-highway equipment requiring one backent for the formanisation. Smill debte, well breaters and hydroxillo systems	Comments too in heavy-day measured by measured formanished in the comments of the comments of the control of the comments of the comments of the control of the comments of th	Conversity use in GM and Ford automatic transmissions in 2005 and earlier model-year vehicles	Commonly used in passenger one and light trution manufactured by Ford prior in 1967, and in many 1967-15531 orders without when the series hydrosization delive wat leave a	Part automotic terrentriensbose where a MERCON V field or earlier generation MERCON Melle specified and for many OM 2005 and audier witche automotic betwarnheisters		Certifitigal air conspressors, circulaling systems regulating fight antiheser (mon-elno)		Lightly loaded gearbones requiring non-EP od, oloudeling systems requiring light entities frankfrag light entities				Commonly used in lightly to moderately loaded plain and reflex-element bearings	Enhabtel elean hithins, many lightly loaded plain and refinquent bankya, stoth on those in eleants maters, purpus and blesses	Included democratishme, mary fightly boded plain and refing- alerant bearings, such 53 State in electric molers, pumpe
Committee Product	Powerthhe 30	Powerthire 50	Powethen Plad	Triben Synthelic Transcol 60	Super ATF	ATFTIPS	Mercan V ATF	MARipurpose R&O 32	St CAN seedardgree	SS OF N seedandgy	001-CYN weedendgray	Neuthrapose R&O 150	Mulipupes A&O 220	Mulipizpese R&O 329	Turbin OI 88	Turbles Of 48	Turbles Of 32
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Taring .	81F (COC) PR	Mar (coc) N	(500)	(200) 88	614F (DOC) P	416 (2000)	(00)	(000) 68	480 (COC) B	4 (200) es	514F (DOC) P	MIF (DOC)	(300) 4999	(500) Jac	(SOC) JES	ege (boc)	(bod) se
1	Calchim 2160 - 2000 PFM, Phosphera 550 -1010 PPM, She 600 - 1210 PPM	Calchan 2180 - 2880 PPM, Phespherus 630 -1010 PPM, Zhro 680 - 1210 PPM	Bern 140 PPM, Calcium 2340 - 4140 PPM, Melpherum 80 PPM, Physiken 1070 - 1310 PPM, Silbert 10 PPM, 230 PPM, 230 1720 PPM, 230 1720 PPM, 240 1720 PPM	Boron 250 PPM, Calabor 40 PPM, Phesphans 1050 -1350 PPM	Baron 88 - 121 PPU, Caldum 62 - 79 PPN, Phospharu 205-254 PPN, Suffar 1084 -1586 PPM	Beron 100 PPM, Zhe 430 - 530 PPM, Phesphens 400 -500 PPM, Buffer 2100 PPM	Been 63 - 110 PPM, Phospherus 178-228 PPM, Silean 10 PPM, Guille EM - 1222 PPM	Phosphorus 25 PPM	Phosphorus 25 PPM	Phosphorus 25 PPM	Phosphore 2 PPM	Prosphorus 25 PPM	Phosphorus 25 PPM	Phosphera 25 PPN	No met also additives	No mathilic and different	No restrato edelibres
Outer gastille Disease	2.0	9	2	1	1	Red Vand	Red Vacual	105	1.05	105	Stal	32	315	3	8	3	9
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Attachment 1 - PacifiCorp Lube Oll Technical Specification This specification to be used for all Barkshire Hathaway Energy affiliates except MidAmerican Energy

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Secure Labracat Specification	Oli, Minnel, Turbin, Shem, R&C, 180 V. Minnel VI 100, minimum RPVOT 1700: minimum TORT 72,000 hrs., mesh 180 desilona 181813.	(3), Milward, Tuchina, Sheary, Raic, (80 Vid 64, Mahraman V 100, ninfaman RPVOT 1700 hrs., rinfaman TOST 25,000 hrs., meets 280 (sheariness 107191).	CM, Syntholic PACs, Bearing & Geors, ADMA 7, ISO VG 460, Minimum VI 150	Oll Symboth PAC, Bushing & Gent, Non-EP Adala S, ISO VG 220	CM, Synthodis PAO, Boaring & Christ, Hon-EP, ISO VG 150	OX, Synthetic PAC, Bearing & Gase, Non-EP, A&C, ISO VO 100, Medman VI 130	JI, Synthetic PAC, Air Compressor, IBO VG-88, Minimum VI 140	Ol. Symbate PMO, Air Compressen, ISO VG 48	OII, Symbolic PAO, Air Compressor, ISO VG 32	Oli, Synthatic polyol ester, ISO 2252, VI 130, industrial Ges Turbine Lubricant	Olt, Byrthwile (PAG) Polymbylane Glycot, Alf Compressor, Robiny Serrex, IBO VO 2046, Milhinan VI 180	PAST Mithemal, Geer, EP, AGMA ZEP, 180 VG LJ, Methodam VI 88	P-802 Oll Mineral Gorr, EP, AGMA 4EP, ISO VG 150,	P.500 Ol, Mineral, Goor, EP. AGNA SEP, 180 VG VG 220, Mintenson VI 86	PADA CII, Mineral, Guer, EP, ACAIA 6EP, 180 VG 300	Ot, Mineri, Geer, EP, AGAIA 7EP, IBO VG 480, Meterum VI 86	P.COU. Mineral, Quer, EP, AGMA BEP, IBO VG 890, Berton VI 85	P-857 OI, Mineral, Gwar, EP, SAE 80N-90, AP! OI6	Pubble PAC, Gear, EP, SAE 79WRI, API GL-5	OL Byrthale PAD, Case, EP, SAE 80N140, AN	Oll. Synthetic PAO, Gairr, EP, AGMA 4EP, ISO VG 160
1	0.32, Long the steam and ges turbhe applications	hre, Long She steam and gas turbine applications	M.Y. Light to medium loaded genthates requiring non-EP all	EP Light to medium loaded gearbaces requiring non-EP oil		EP. Lightly backed gentleme requiring non-EP of, chausefurg systems.	VG 68, Rutary eir compressons, deut in moter bearings, droubling systems.	VG 46 moler bearing, distilling and south	Robery at			3	VG 150, moderately used in lightly to moderately heated or guarbanes needships EP of	VG VG loached gest-boom requiring EP	VG 320 Commonly used in busiely leaded and/or slow appeal gentlesses sequility EP of			Ottensity used in the passanger car and trusk cales with hypoid gaar sala.	Commonly used in h presenger our and truth sales with hygield gave such in safering impresence or under sever divide confiltors	Ommonth used in the pessenger ser and buck sides with hypoid game such hypoid game such in adverse daheng seratifors.	Commonty used in lightly in moderately loaded or geambattee operating in temperature
Connectivities Product	Diamond Clean Turbins Of	Diamond Class Turbine Cil	Bymoon RAO 460	Synoun R&O 220	Synom R&O 150	Syroen R&O 100	Syncon R&O 63	System R&O 48	Symmetr R&O 32	Syndustrial Tutkins OE 22/32	Syndastrial Rejary Compressor Oli 32945	Betra Duky Game Od 68	Extra Duty Gear OB 150	Extra Duty Gear Of 220	Extra Duty Geor City 220	Extra Duty Gear Oil 480	Extra Duty Geer Oil 6:30	Universal Gear Lube BDW-80	Tribon Synshallic Gu.d' Lubo 7364-80	Tribon Synthetic Geer Labe BON4-140	Syncon EP Plus Geer Of 160
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FILTE	(500) 829	455 (DOC)	(DOC) HOLE	(78F (COC)	(12E (DOC)	527F (DOC)	ezar (coc)	SIBF (COC)	(DOC) JELF	811 (COC)	484F (DOC)	(20C) - 1884	(DOC) -589	(a6F (DOC)	tesf (coc)	(2001) J889	(000) ALLIPA	#1# (DOC)	SEPF (COC)	(500) 286	MANF (DOC)
1	No metallo addifere	No matalic additives	Phosphera 1600-2100 PPM	Phospherus 1500-2100 PPM	Phosphorus 380 - 670 PPM	Phosphana 380 - 570 PPM	Phosphare 380 - 570 PPM	Phosphara 380-570 PPM	Pheepherus 360 - 570 PPM	Phosphana 2100 PPM, Silican 2 PPM	Phosphana 25 PPM,	Phespharus 220 - 400 PPM, Bulhar SECO PPM,	Phosphorus 220 - 400 PPM, Suitur 6600 PPM,	Phosphorus 230 - 400 PPM, Sulfur SBCO PPM,	Prespirorus 220 - 400 PPM, Bulhur 6300 PPM	Phosphorus 220 - 400 PPM, 8uffur 6300 PPM	Phosphone 220 - 400 PPM, Suffur 5500 PPM,	Phosphera 250-350 PPM, Sufur 13000 -18000 PPM	Phospherus 1200-/300 PPM	Prosphera 1000 PPM	Phosphorus 263 - 432 PPM, Buffur 8000 - auto pour 2445 6 pour
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Attachment 1 - PecifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

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Gererio Lubricant Specification	Od, Bynhade PAO, Gear, EP, AGNA SEP, 1900 VG 220	Od, Bymhwie PAC, EP, AGMA 6EP, ISO VIS 338	ON, Synthatic PAC, Gear, EP, AGNA 7EP, ISO VG 460	OJ, Synfrede PAO, Gear, EP, AGNA 7EP, ISO VG 620	Grusse, Mineral Of Bess, Mitheum (SO VG 200) (sub) Polymer), Ublum Bosp or Libbam Complex Thislence, Coupling Grusse, EP, NGO, NLOI O'	Greeks, Minnel Of Bees, Minnern ISO VG 190, Dr. Linkun St-Mydrosychemie Thidrone, Matherpone, EP, RRO, NLGI 000	TOTAL VANCOUS PROSPECTOR	Oreses, Minnel OB Gees, Mahmun 160 VM 575 (Mil) polymen, Mahmun VI SB, Libhan Complex Thislenes, Mallipurpose, EP, R&O, NLSI 2, GO- LB cetified	Cheere, Mirant Of Bear, Mirtiman (30 Vid 190, Minham VI 8t, Libban 12-Hydrogeleanth Thistorier, Midfarpore, EP, R&C, Hi.Ol 6	Common, Minned Cil Base, Minimum IBO VG 590, Minhamm VI RE, Libbam 12-hydrospassman Thisbaren, Malipurpose, EP, RAC, 116 malydemum dhulliba, NLGI 2	Gree, es, Minerel Of Base, Miniman 190 VG 400, PAGE Midden VI BD, Libban Complex Thickness, Mathicapose, EP, R&O, NLGS 2	Green, Mineral Of Bees, Maintenn 180 VG 180, Delalan Saliensis Thickness, High Temperature Greene, EP, R&O, NLOI 2, GO-LB certified	Greene, Mhraid Od Bens, Mehrimm 190 V/3 (10), Mehrimman VI BJ, Palyana Trifelerim; High Temperatura Greene (Parage -20 to 400P), Bell & Reder Benfrig Greene, Noty-EP, RACo, NASE	Greeza, Minorel Of Beac, Minimum ISO VG 100, 505 Milhimm VI Pt, Polytom Thickness, EP, R&O, NLGI 2, GC-LB confided	Green, Synthetis Of Bane, PAO, Melenum IBO Action of Company Thickness Lawrenseether greens (Range-4D to 2019) FP, Rato, NLG16 to	Green, Byrdrath Of Been, PAO, Mehinum BO VG 190, Mehinum VI 130, EP, 1840, WAle Townshire Range, Libhun Cenyles Thickney, Force 3, 100, 100, 100, 100, 100, 100, 100, 1
-	Commonty used in nocleosity in features in temperature schemes and magazing EP of	Constructly used in health based and/or stern speed particular agentific in temperature extremes and reconstruction of the con-		Comments used in very heavily besided and/or store speed participes of control in fertpendure extreme and resulting EP of	For medium and high speed couplings.		Correctly Lead in plain and refing-demost beautige and other britains equipment where operating temperatures and backs are residents.	8	Commenty used in mederably leaded plain and reling demant bearings in industrial equipment	8] 1-	Commany used in basely badfed, obser-to mediam-speed baselings	Ceremony used in industrial and addenoise equipment operating in wat or correspond enhancements	Compatibility drawst empland on any repleoement greates.	Cempathilly of mot maping on any replacement greates.	Commonly uses in Industrial particulars of high to lemperatures where of lexings in a problem.	Consmooth used in medium- spend bunfugs, in industrial equipment operating in carbons temperatures or over a vide
Consorting Product	Bynson EP Plus Gear Off 220	Bynson EP Plus Gear Of 320	Bynoon EP Plus Gear Oil 480	Ayroon EP Plus Gear Of Li30	Coupling Green	Dynafte L.EP 4000 Greens	Dyndille L-EP 82 Grenie	Dynalis HT 62 Grees	Super-ETA #2 Grees	Super-STA M 62 Green	Theres HD	Omréguerd \$2 drames	Polyton 62 grosse	Pulytao EP 42 gresse	Triton ELL Gresse	Tribos 220 62 Grams
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Attachment 1 - PacifiCorp Lube Oil Techincal Specification
This specification to be used for all Berkshire Hathaway Energy affiliates except MidAmerican Energy

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Generale Labritates Specificadion	Green, Sprifretts CR Bens, PAC, Mirkmun ISO VG 400, Mirheson V 120, EP, RAC, White Temperature Range, Libram Complex Thisherms, NLG1 1.5	On-u., Mineral Ol and Asphalite Stees, Asphalis Vo 2000-Valous Billegiller, Chen Case University Bill, Arberrer, EP – Specification Witness Stehent land to contain New-Childrental Emporation Gelevet, smaller have children	Occasi, Nome of and Asphalito Bass, Asphalito VO 5000-floates to Bagging Cyber Charles Land Landson Cyber Cyber Charles Landson March Cyber Cybe	Ol. Bolaba, Chlorina-Iras, Enuladying, 3-10% mix rate of io vasier, ISO VG-46.	Ol, Didectric, Transformer, ANSEMSTH DS487-10 OS 17yo B PANNA Ol, GE A13A3A2 (10CA), We differ that the Best State of CA
-	Commenty used for histosition of tour in median speed bearings in bid-satisfied and models equipment operating under housy leads and/or yet confillers	Primarity for the balentadion of open and earth-enclosed gears, or the galdies and eithing earthers with large clearantons	Phreefy for the Administer of open and servicement germ or for guides and obliving a surfaces with large observations	Light-duty metabenting flad for light- to matter-duty cutting and geheling of ferrous and non- ferrous prof de	L. Electrical trackating of for use in of terminant transferriers. n- expection, top obsergen and characters benefiting
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stachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy short specification

MC Of Specification	n Number Status	Generic Labricant Specification	Referent GEN Endorsements or Specifications	ABTH or 180 Space
MEC-001	Active	OII, Mineral, Hydraulio, Fluid Power Transmission, Antiveer, R&O, ISO VO 32, High Viscosely Index, Minimum VI 135, Low Pour Point < -36 F	Denison (HF-0 HF-1 HF-2) Christmel Mechine Pc4 (860 32) Eator Victors N23-48 Eator Victors N-2900-5	ASTIN 6169 - Hydraulic CR Type - HV ISO 11 168.2008 Family II (Phydraulic Systems), Type HY ISO 11 168.2008 Family II (Phydraulic Systems), Type HY ISO 11 168.2008 Family II (Phydraulic Systems) ISO 11 168.2008 Family II (Phydraulic Systems) ISO 12 - Demindeliki Type II of III minutes to pass ASTIN 10 130 - One Type II of III of
MEC-002	Adive	Oil, Mineral, Hydraulio, Fluid Forver Transmission, Antiswar, R&O, ISO VG GJ, Minimum VI 95, Pour Point < -20 F	Derison (HF-0 HF-1 HF-2) Cindrest Mechine P-L9 Esten Victore I-289-8 & M-2890-8 Esten Victore II-28006	ASTM 0159 - Hydraulic OE Type - Hild (refined mineral of with R&C and AMY) 150 11158:2009 - Parrily H (Hydraulic Systems), Type HM ASTM 01-401 - Downshillity Test - < 10 minutes to pass ASTM 10 1001 - Countability Test - < 10 minutes to pass ASTM 10 1002 - Open Correction - 1s ASTM 10 1002 - Open Correction - 1s ASTM 10 1004 - Calestim Stability - TOST - > 5000 hours to 2.0 mg KOHly ASTM 10222 - Coldetion Stability - TOST - > 270 minutes ASTM 1040-04 Natural - < < 20 mg KOHly ASTM 10080 - Peur Poids - < < < 0 mg KOHly ASTM 10080 - Peur Poids - < < 0 mg KOHly ASTM 10080 - (10 mg KOHly ASTM 10
MEC-009	Active	Gresse, Mineral OS Base, ISO VG 220, Minimum VI SO, Lithium Complet Trickerer, Multipurpose, EP, RBO, NLGt 2 - (This specification duplicated MEC-110, so MEC-110 was consolidated		ASTM D 4950 Climitibation GC-LB for Automotive Service; Pase - ASTM D 1743 Rust Protection; 1b - ASTM D 4048 - Copper Corrosion; -95 Incure - ASTM D 352 Wheel Suring Libi; -954 - ASTM D 1284 - Willer Westrok; 5; 000 @ 1757; 46 Iba - ASTM D 2509 - Timton OK Losd, Ibe; 250 ligf - ASTM D 2508 - Four-Ball Four-
		Into it to make MEC-110 an open specification.) Oil, Mineral, General Purpose, Geer, AGMA 7, Non-EP, Antiweer, R&C,		Wald Leed, LgC, 0,45 mm - ASTM D 2268 - Four-Beit Weer, mm, 117, 75°C, 1200 pm, 40(b) <20°F - D 8850 - Peur Point, °F; 1b - ASTM D 190 - Copper Cerrosion, 3 hrs @ 212°F; Pees - ASTM D 8658 - Rest Teet; > 1100 hours - ASTM D 943 - Oxidation
MEC-004	Active	ISO VG 460, Minimum VI 85		Stability Hours to 2.0 mg KOH/g acid number; <30 minutes - AETMI D 1401 - Emulsion Test, minutes; 00 - ASTMI D 232 - Poem Test, Sequence II mi foem at 0/10 minutes
MEC-008	Active	Oil, Mineral, Gear, EP, AGMASEP, IBO VG 220, Minimum VI 95	Bosch Ravroth (Listing); Boston Geer (Listing); Devid Brown (Approval); Devid (Listing); FAG (Listing); Fall (Listing); GM LB-2; Laram AG (Approval); Mister Mischine Company (Approval); Morgan Constitution (Listing); Master Weigerdon (Listing); Reservot-Stephen (Approval); Wartelle (Approval); US State 224	Pass - ASTM D 8658 - Rust Test; 70 bs - ASTM D 2782 - Timisn OK Losd, bs; 4 ligf and 250 kig - ASTM D 2783 - Four-Ball EP Losd Weer Index, ligf and Wield Point, ligf
MEC-008 MEC-007	Active	Ol, Mineral, Gear, EP, AGMA 7EP, ISO VG 460 Minimum VI 95 Oll, Mineral, Gear, EP, AGMA SEP, ISO VG 930, Minimum VI 95 Oll, Mineral, Turbine and General Purpose, R&O, ISO VG 32, Minimum VI 100, Filbred to meet ISO 4406 de	General Electric GEK 28143A; General Electric GEK 4600; General Electric GEK 32503F;	
MEC-008	Active	Lubricants that meet MEC-036 will meet this specification only if the the oil is fitured to meet 160 4406 16/15/12.	98; Man Turbo SP 079384 D0000 EF9 Mack EO-K/2 & EO-K; Detroit Diseaf Corp. Two	ASTM D 4304, Type I (non-EP); DIN 51616 Part 1; ISO 8064;
MEC-009	Active	Oil, Mineral, Hydraulic, SAE 10W or IBO VG 32, Minimum VI 105 (This specification duplicated MEC-082, so MEC=-92 was consolidated into it making MEC-092 an open specification.)	Cycle: Cetarpiller TO-2 API CF; ML-L-2104 B, C, D, E, F; MIL-1-48152E; Alleon C-4, C-3; CAT TO-2: Victors 35VC25	
MEC-010	Active	Oil, Mineral, Engine, BAE 30 API CF, CF-2, CD, CE, CD-II-SG-8H-8J (MEC-024 was consolidated into MEC-010.)	MILL-2104FIG; DOD CIDAA-82308 Cummine NTC- 400; Mack EO-K2 and EO-K; Alliaon Type C-4 Fluid; Ceterpiller TO-2 MILL-2104FIG; MILL-48162; DOD C1 DAA-82308	
MEC-011	Active	OI, Mineral, Engine, SAE 15W40 API CG-4,CE,CD-II,CF-4,CF-2-CF, 8H,SG-EC-8J	Mack EO-K/2 & EO-K: EO-L: Cummins NTC 400:	
MEC-012	Active	Fluid, Automatic Transmission, Mercon & Dearon III Greese, Mineral Of Bees, ISO VG 220, Minimum VI 80, Lithium Complete	Ceturpilar TO-2; Alfeon Type C-4 Fluid DEXRON-III; MERCON	
MEC-013	Active	Project 450 F. N., 69 in Street, Bot Ve 220, Infrarian Viol. Linstein Company Tribitance, Multipurpose, EP, R&O, High Temperature, Minhum Droping Point 450 F. N., 69 in Sees. ISO VG 180, Minhum VI 80, Lintum Complex Tribitance, Multipurpose, EP, R&O, N.(61 0		
MEC-015	Active	(Same as MEC-124, except for thickener and AW.) Greese, Synthetic Oll Bess, PAC, ISO VG 220, Minhaum VI 109, Aluminum Complex Thickener, Food-Grade NSF H-1, -40 F to 320 F,		
		EP, R&O, NLGI 2 OR Mineral, Geor, ISO VG 150, Minimum VI 95, EP, AGMA 4EP, SAE 90	MILL 2005D ADI OL & Mark 00 M DG 2	
MEC-018	Active	(Rockwell Q-76-D; AMGA 4EP MIL-PRF-2105E; API	
MEC-017	Active	(MEC-078 was consolidated into MEC-016.) Oil, Mineral, Geer, EP, AGNA SEP, SAE 85W-140, API GL-5	MIL-PRF-2106E; API GL-5, MT-1; Mack GO-J, GO-	
MEC-018	Active	Oil, Mineral, Air Compressor, Antheser, R&C, Demulalifying, ISO V& 100, Minimum VI 75 (This specification is almost identical to MEC-039 and they should be combined.)	H, GO-G; Aninideritor 076-A; AMGA 5EP Atlas Copco, Dresser Rand, Sulleir, Compane requirements for rotary screw and vane compressors. Coupling Gresse must meet the requirements of the	
MEC-019	Active	Gresse, Mineral Oll Base, ISO VG 3200, Minimum VI 130, Lithium Scep or Lithium Complex Thioleser, Coupling Greens, NLGI CH	foliosing inclusity specifications: ANSWAGMA Standard 6001- 897, Type CG-1 and CG-2 for medium- and high- speed couplings.	
MEC-020	Active	Greese, Synthetic Of Base, PAC, ISC VG 450, Minimum VI 130, Uthium Complex Thickner, Multipurpose, Vilde Temperature Range, EP, R&O, NLGI 1.5 to 2 This specification is a chalication of MEC-121.		
MEC-021	Active	This appealmention is a displication of MEC-121. Oil. Synthetic PAO, Gear. EP, AGMA 5EP, SAE 75W60, API GL-5	MIL-L-2105D-API GL-5; Mack GO-G/S and GO-H/S-	
MEC-022	Active	Oll, Minerel, Geer, EP, AGMA SEP, ISO VG 100, Minimum VI B5 Oll, Synthetic, PAO, Air Compressor, non-EP, ISO VG 63, Minimum VI	GE; 1060E9C; Rookwell 078E and 0788 Performance and specifications must equal or	
MEC-028	Active Active	Oit, Symmotic, PAC, Art Compression, Floriest, Floriest, All CARECO, Art Compression and Aphaelito Bases, Asphalito VG 600 8U8@210F. Minarel Oil 80 VG 820 (200 8U8@210 F). Open Gear Lubranch, RAC, Anthews, EP — Specification Without Solver but to contain Non-nivers, EP — Specification Without Solver but to contain Non-	Performance and specimentons must equal or exceed Mobil SHC-826.	
MEC-028	Active	Chlorinated Evaporative Solvent Oil, Synthetic, PAO, Gear, AGMA 7, ISO VG 460, Minimum VI 150	Performance and specifications must equal or	
MEC-027	Active	Oll, Mineral, General Purpose, Antiwear, R&O, ISO VG 220, Minimum VI 95	exceed Mobil SHC-634. Denison HF-1 & HF-2A; TB-C; Vickers I-285-S & M- 2950-S; Cincinnati Miscron P-65, P-67 & P-70	
MEC-028	Active	Grosse, Synthetic Oll Base, Silicone, ISO VG 316, Minimum VI (ENTER). Carbon Black Thicksner, Bearing, Esterne High Temperature Service, Service Temp Range -18 to 286 G (to 900 F), R&O, NLG, CC CII, Synthetic, Tri-Aryl Phosphate Eeler, Hydraulis, Fire-Resistant, EMC -	GE Spec 050A128-S1	
MEC-029 MEC-020	Active	(See also MEC-146.)	Performance and specifications must equal or	
MEC-031	Active	(not yet specified) Oil Mineral Geet EP AGMASEP ISO VG 320 Minimum VI 95	exceed Mobil SHC-624.	
MEC-032	Active	Gresse, Mineral Oil Base, ISO VG 220, Multipurpose, Lithium Complex Thickener, High Temperature, Auto-Luber, EP, R&O, NLGI 1 (Must be suris gresse as MEC-013)	Performance and specificators must equal or exceed ingersol Rand IR Ultra Coolant.	
MEC-033	Active			

Attachment 2 - MidAmerican Energy Lube Ol Technical Specification MidAmerican Energy short specification

,	MEC-035	Active	Oil, Synthetic Polyol Ester, Hydraulic, Fire-Resistant, ISO VG 46, Mirimum VI 140	Performance and specifications must equal or succeed Qualear Quintohlbric \$22-220 or £38-46, which has replaced \$22-220.	ASTM D 92 Finsh Point -> 525 F ASTM D 92 Fins Point -> 615 F DIN 61794 Auto ignition Temperature ->840 F (Fire resistance properties certified by Factory M
	MEC-038	Active	Oil, Synthetic, PAO or Hydrocarbon and Ester Bland, Gear, AGMA 5, Non-EP, R&O, Minimum VI 132, ISO VG 220		, and a second of the second o
	MEC-037	Active	Greese, Mineral Ož Base, ISO VG LIJO, For Low Speed Gearings, Heat, Steam, and Water We-hout Resistant, High Temperature, Aluminum Complex, EP, R&O, NLGI 2		
,	WEC-038	Active	Oli, Mineral, Hydraulic & General Purpose, Non-Antiweer, R&O, ISO VG 32, Minimum VI 95 (MEC-008 Turbine Oli may be used to meet this specification.)		
	MEC-039	Active	Ol, Mineral, General Purpose, Antiweer, R&O, ISO VG 100, Minimum VI 95 (This specification is almost Identical to MEC-018 and they should be combined.)		
	MEC-040	Active	Oil, Mineral, Chain & Cable Lubricant, ISO VG 22-32, EP, -10 F to 300 F Operating Temperature, > 260 F Flash Point		
	MEC-041	Active	Oil, Mineral, Hydrautic & General Purpose, Non-Antheser, R&O, IBO VG 320, Minimum VI 95		
	MEC-042	Active	Ot, Synthetic, Diester, Air Compressor, Reciproceting, ISO VG 63, Minimum VI 94 Ot, Minest, Hydraulic & General Purpose, Non-Antiweer, R&O, ISO VG	(Must be equivalent to Alles Copco Roto Z Compressor Oil)	
	WEC-043	Active	63, Minimum VI 105 Oil, Mineral, Straight Nephthonic, Bearing & Light Gear, Flushing, ISO VG		
	NEC-045 NEC-046	Active	160, Minimum VI (not yet epecified) Oil, Mineral, Gear, ISO VG 150, Minimum VI 95, EP, AGMA 4EP, SAE 90 (This spec appears to be a duplicate of MEC-016.)		
	MEC-047	Active	Grassa, Mineral Oll Bass, ISO VG 229 to 460, Minimum VI 60, Lithlum Soap Thickener, Plus 3% Molybderum Disultide, EP, R&O, NLGI 2		
	VEC-048	Active	Grasse, Mineral Ol Base, ISO VG 46, Minimum VI (ENTER), Lithium Soup Thickener, Multipurpose Grasse, Electric Motor Bearing Gresse, Low-Noise Grasse, Nort-EP, R&O, N.G/12		
	WEC-049	Active	Low-Noise Gresse, Non-EP, R&O, NLGI 2 Oil, Mineral, Gear, Drive Train and Transmission, SAE 30W	Ceterpiler TO-4; Allison C-4	
	NEC-060	Active	Greeze, Mineral Oil Base, ISO VG 22, Minimum VI (ENTER), Calcium	Graphile content must squal or exceed 12 %.	
		100	Seep w Graphita Thickener, Rail Curve & Wheel Flange, NLGI 1/2 Oil, Synthetic, PAO, Bearing & Geer, Non-EP, ISO VG 160, Minimum VI		
N	IEC-061	Active	(not yet specified) Greams, Mineral Oil Base, ISO VG 120, Minimum VI 95, Synthetic	exceed Mobil SHC-629.	
	IEC-053	Active	Polyures & PITE: Trickerer, EP, R&O, NLGI 2, High Temperature Purformance = Peres at 500 hours - 10,000 RPM @ 450°F, Water Wastrout, % lose, @ 175°F, (typical) ASTM D 1284 45% OI, Mineral, Tutbin, General Purpose, Non-Antiwez, R&O, ISO VG 100,		
N	AEC-054	Active	Minimum VI 100 (Duplicate of MEC-125)		
N	MEC-055	Active	Oil, Mineral, Hydraulic & General Purpose, Non-Antiseer, R&O, ISO VG 150, Minimum VI 95 (MEC-082 was consolidated into MEC-055)	Denison HF-1; Violare 286-S; Cincinnet Milecron P-38, P-54, and P-55.	
	MEC-068 MEC-057	Active Active	Oil, Synthetic, PAO, AGMA SEP, ISO VG 320, Minimum VI 170		
	EC-058	Active	Oil, Synthetic, PAO, AGMA BA, ISO VG 1000 Oil, Synthetic, (TYPE), Genr. AGMA B, Minimum VI (), ISO VG 630		
M	IEC-050	Active	Oli, Mineral, Hydraulic & General Purpose, Anthesar, R&O, ISO VG 46, Minimum VI 135, Wilde Temperature Range	Denison HF-O & HF-2; Victors I-266-S and M-2950- S; Racine Model S; and, Cincinneti Mileoron P-63, P- 69, and P-70 for varie, platon or gear type pumps.	
M	IEC-060	Active	Of, Mineral, Hydraufic & General Purpose, Non-Artiwear, R&O, ISO VG 220, Minimum VI 90		
M	IEC-081	Active	Ol, Mineral, Hydraulic & General Purpose, Non-Anthesar, R&O, ISO VG 480, Minimum VI 90		
M	IEC-084	Active	Ol, Mineral, Hydreulio & General Purpose, Non-Antheser, R&O, ISO VG 40, Minimum VI 105 (Duplicates: MEC-084, MEC-088 and MEC-118.)	Denieon HF-1; Vlokers 266-8; Cinobrael Misoron P- 38, P-54, and P-55. GE GEK-465084; SAE-ARP Class 6 & NAS 1636 Class 9 wio Lift Pump; SAE- ARP Class 4 & NAS 1636 Class 7 w Lift Pump	
M	IEC-085	Active	OI, Mineral, Engine, SAE 40, U.S. Milliary MilPRF-2104G, CF-2, CG4, SJ OII, Synthetic, PAO, Gear, AGMA 5EP, R&O, Minimum VI 150, ISO VG		
M	EC-088	Active	220		
м	EC-067	Active	(MEC-103 was consolidated into MEC-063) Oil, Synthetic PAO, Air Compressor, Gear, Non-EP, R&O, ISO VG 100, Minimum VI 130 (Duplicates MEC-106)		
M	EC-069	Active	Oil, Synthetic, PAO, Hydraulic, Nen-Zinc Antiweer, R&O, ISO VG 22, Minimum VI 130	Denison HF-1 & HF-2A; Victors I-288-8 and M-2950- 8; Cinchrast Milacron P-68, P-63, and P-70.	
M	EC-070	Active	Ol, Minerel, Compounded, Low Speed Bearing & Gear, Steem Cylinder, AGMA 7, ISO VG 480	exceed Conoco Inca Oli 460.	
M	EC-071	Active	Of, Mineral, Low Speed Bearing & Gear, Steam Cylinder, AGMA 6, ISO VG 6:30	Performance and specifications must equal or exceed Conoco Inca Oil 680,	
M	EC-072	Active	Gresse, Synthetic Of Base, PAO, ISO VG 22, Minimum VI 120, Lithium Scep or Lithium Complex Thickener, EP, R&O, NLGI 1		
M	EC-073	Active	Greece, Synthetic Oil Base, PAO, ISO VG 480, Minimum VI (ENTER), Lithum Complex Thiolener, EP, R&O, NLGI 00 Greece, Mineral Oil Base, ISO VG 480, Minimum VI 85, Bentonite Cley		
М	EC-074	Active	Greens, Nemons Oil Sees, ISO VG 400, Nanimum VI 80, Bertantia Gley Thickener, High Temperature Granse, EP, MLGI 2 (Except for NLGI Grade, this greens is the same as MEC-122.)		
M	EC-076	Active	Gresse, Mineral Cli Base, ISC VG 460, Minimum VI 85, Calcium Bulforate Thickener, High Temperature Gresse, Water Washout Resistant Gresse, EP, R&O, NLGI 1		
M	EC-076	Active	Gresse, Mineral Oll Base, ISO VG 480, Minimum VI 95, Calolum Sulfonats Thickener, High Temperature Gresse, Weter Weehout		
М	EC-077	Active	Recistant Greene, EP, R&O, NLGI 2 Greece, Synthetic Oil Base, Sticone, ISO VG (ENTER BASE Oil. GRADE), Minimum VI (ENTER), Extreme High Temperature, NLGI 3	Performance and specifications must equal or exceed Dow Coming 111 Valve Lubricant.	
M	EC-079	Active	Oil, Minerel, Hydraulic & Fluid Power Transmission, ISO Oil Type HM,	Denison HF-1; Vickers 286-8; Cincinnet Miscron P- 38, P-64, and P-65.	
ME	EC-080	Active	Greene, Synthetic Oil Base, Polyatkene Glycol, ISO VG 160, Minimum VI		
ME	EC-067	Active	Oil, Mineral or Synthetic or Synthetic Bland, Engine, SAE 10W30, ILSAC GF-5, CF-2, Chrysler MS-6395 (Rev. T)		
ME	EC-091	Active	Oil, Synthetic, PAO, Goer, AGMA 7EP, Minimum VI (), ISO VG 480		
ME	EC-093	Active	Grease, Synthetic Oil Base, PAO, ISO VG 32, Minimum VI 140, Organic Clay Thickener, Wide Temperature Range (-50 C to 180 C), NLGI 1.5	Performance and specifications must equal or succeed Mobil Temp SHC 32.	
				AGCO Power Fluid 821XL, Q-1828, Q-1802 (Type 55 Fluid), Q-17EU3 SFAID), Q-17EU3 Case H Mel'210, Mel 1209, Mel 1207, Mel 1205 Case New Holland (CNH) MAT3625 (184-D Fluid), MAT3605 MAT3605 Caterpiller TO-2 (obsolete)	
				Denkon Hydraulos HF-0, HF-1, HF-2 Ford ESN-M2C134-D, ESN-M2C88-C, ESN- M2C63-8, ESN-M2C41-8	
ME	EC-094	Active	Ol, Mineral, Multipurpose, Transmission & Hydrautic, Tractor Final Drive, 180 VG 62, Minimum VI 145 - See OEM Specification Requirements	Ford-New Holland FNH-A-2-C-201.00 John Deere JDM J20C, J20D ("Low Viscosity" grade), J14C (Type 303 Fluid) Kubota UDT Fluid	
			The state of the s	Lunow Tracer II Pydrawac Publ Massey Forguson CMS M1143/M1143, M1141, M1135, M1128A Sundaturard Hydrostatic Transmission Fluid Volcters (Estron) M-2950-5, 1-295-8 Volcters (Estron) M-2950-5, 1-295-8 Volcte (Estron) M-2950-5, 1-295-8	
				ZF TE-ML 03E, 05F, 17E	
ME	C-096	Active	Greece, Mineral Of Saso, ISO VG 100, Minimum VI (ENTER), Lithium I Scep Tricterier, Electric Motor Bearing Greece, NLGI 3	Performence and specifications must equal or succeed Shell Cyprins RA Grasse.	

Attachment 2 - MidAmerican Energy Lube Oil Technical Specification MidAmerican Energy short specification

MEC-098	Active	Gresse, Mineral Oil Bess, ISO VG 1000, Minimum VI (630 cSt @ 40; 37 pST @ 100), Sadium Soap Thiokener, Bearing Gresse, NLGI 1	
MEC-097	Active	Oil, Synthetic, PAO, Air Compressor, ISO VG 48	
MEC-088	Activo	Oil, Synthetic, Diseter, Air Compressor, ISO VG 150, Minimum VI 95	
MEC-099	Active	Green, Soy Oil Bese, ISO VG 58, Minimum VI 200, Rail Curve & Wheel Flangs, NLGI 1 (Conforms to State of Iowa Senate File - SF 2185 and SF 2248 Purchasing Preference for Biobased Lubricarte) Cl, Mineral, Hydrauda & Fhild Power Transmission, ISO Oil Type HM,	
MEC-100	Active	Zino-Free Antiveer, R&O, ISO VG 45, Minimum VI 100 (MEC-152 was consolitated into MEC-100.) Gresse, Mineral Oli Base, ISO VG 100, Minimum VI 80, Synthetic	Denieon 20-VQ, 35-VQ, and 104C vane pump teets.
MEC-101	Active	Polyures Trickener, High Temperature Greate, Ball & Roller Bearing Grease, NLGI 2, MUST MEET LUBRICANT REQUIREMENTS OF GEK	GE GEK 46362F
MEC-102	Active	46382F (MEC-101 is a near duplicate of MEC-117 and 135) Greese, Synthetic Oil Bess, Silicons, ISO VG (ENTER BASE OIL, GRADE), Minimum VI (ENTER), Coupling Greese	
MEC-104	Active	OS, Synthetic, PAO, Hydraulic, Non-Zinc Antiwear, ISO VG 32, Minimum VI 135, Wide Temperature Range	
MEC-105	Active	Oll, Synthetic, Diester, Air Compressor, ISO VG 100, Minimum VI 95	
MEC-107	Active	Oll, Mineral, Drive Train & Transmission, SAE 10, Alfaon C-4, Carterpiller TO-4, Euclid equipment, Komatau equipment, Victora (Eston) M-2950-5, ZF TE-ML 03C for torque consenter transmissions	
MEC-108	Active	Greece, Synthetic Cti Base, Diseter, ISO VG 46 (3.1-3.4 @ 100 C), Minimum VI (-100 F to +300 F), inorganic Gel Thickener or Lithum Scap, Low Temperature, NLGI 2	
MEC-109	Active	Oil, Mineral, Engine, SAE 10W40, API SM / ILSAC GF-9 Grasse, Mineral Of Bass, ISO VG 62-100, Minimum VI 100, Aluminum	
MEC-111	Active	Complex Thickener, Multipurpose, High Temperature Gresse, EP, R&O, NLGI 2	
MEC-112	Active	Grees, Synthetic OI Base, PAO, ISO VG £3, Minimum VI SO, Abminum Complex Thickener, Bearing Greese, EP, R&O, NLGI 2 Greese, Synthetic OI Base, PAO, ISO VG 1350, For Heavily-Loaded	
MEC-113	Active	Low-Speed Beerings, Lithum Complex Thickener, EP, R&O, Antiweer, NLGI 1	Performance and specifications must equal or exceed Mobilith SHC 1500.
MEC-114	Active	Gresse, Mineral Of Base, ISO VG 100, Minimum VI (ENTER), Lithium Scep Thickener, Multipurpose Gresse, Electric Motor Bearing Gresse, Low-Noise Gresse, Non-EP, R&O, NLGI 3	
MEC-116	Adive	OR, Mineral, Geer, EP, AGMA 2EP, ISO VG US, Minimum Vi 95 Greece, Synthetic Oil Base, PAO, ISO VG 100, Minimum VI 105, Synthetic Polyures Thickener, Ball & Roller Bearing, Non-EP, R&O, NLGI	
MEC-116	Adhe	2	
MEC-118	Active	Oll, Synthetic, PAO, Hydrocerbon, Grar, AGMA 4EP, ISO VG 150, Minimum VI 130	
MEC-120	Active	Oil, Mineral, Hydrauth & General Purpose, Antiweer, EP, R&O, ISO VG 100, Minimum VI 95	Denison HF-0 & HF-2A; Vickers 296-8 & M-2950-8; Cincinnati Miseron P-63, P-611, & P-70
MEC-123	Adhre	Greene, Synthetic Oli Bess, PAO, ISO VG 220, Minimum VI 130, EP. R&O, Wide Temperatrus Range, Lithium Complex Trickener, NLGI 2	
MEC-124	Activo	Greece, Mineral Ol Base, ISO VG 160, Minimum VI 60, Lilnium 12- Hydroxysteerate Trickener, Multipurpose, EP, AW, R&O, NLGI 0 (Seme as MEC-014, except for thickener and AW.)	
MEC-128	Active	Greens, Mineral Oil Bees, ISO VG 220, Minimum VI 80, Lilrium 12- Hydroxystearate Trickener, Multipurpose, EP, R&O, NLGI 2 Oil, Mineral, Dielectric, Insulating, Transformer, ANSI/ASTM D3467-09	
MEC-127	Active	Type II Innband Cit, GE. A13ASA2 (10CA), Westinghouse Specification PDS 88822AG	
MEC-128	Active	Oil, Mineral, Refrigeration Compressor, ISO VG 22-32 (SUS@100F = 160),	
MEC-129	Active	Oil, Mineral, Refrigeration Compressor, ISO VG 300 Oil, Synthetic, Polyalisma Glycol, Gaer, ISO VG 680, Minimum VI 220,	
MEC-130	Active	Wite Service Temperature Range: -25 to 160 C, Seel Compatibility:	
MEC-131	Active	Grease, Synthetic Oil Bees, (ENTER TYPE), ISO VG 320, Bentonite Thickerer, High Temperature Greese, Food-Grade NBF Class H1, EP. R&O, NLGI 2	Alleon Gee Turbine Division EMS-45, Cooper
MEC-133	Active	Oil, Synthetic, PAO, Industrial Gas Turbine Lubricant, ISO VG 32, Minimum VI 130	Gas Turbines, General Electric Company Gas Turbines, Soiar Turbines ES 9-224, Westinghouse Gas Turbines
MEC-134	Active	Oli, Synthetio, Polyalisane Glycol, Gear, AGMA 6EP, ISO VG 320, Minimum VI 225, Wide Service Temperature Range: -25 to 160 C, Seal Compatibility: Notice	
MEC-135	Active	Grouss, Synthetic Off Sees, Perfluoropolyether, ISO VG 1000 off @ 40, 85 off @ 100, PTE Thiotener, High Temp > 500F (Was an open spec - duplicated MEC-117 and MEC-101. Asked Jessen to make MEC-135 an open spec on 1/25/2012 and keep MEC-101.)	
MEC-136	Active	Greene, Mineral Oil Bass, ISO VG 100, Minimum VI (11.5 oSt at 100F.) High Speed Bearing Greene, Lithlum Complex Thiolesner, R&O, NLGI 2	
MEC-137	Activo	Greens, Synthetic Oil Bass, PAO, ISO VG (ENTER), Minimum VI 120, Gel Thickener, High Temperature Greens, NLGI 2	
MEC-138	Activo	Oil, Synthetic, Ester or Synthetic Organophosphate Ester, Non-EP, No Friction Reducting Additives, Wide Temp Range, MIL-L7808, MIL-L- 23639, ISO VG 30 (Nominal)	
MEC-139	Active	Oil, Synthetic, Diseter, Air Compressor, ISO VG 32, Minimum VI 130, Flesh Point 450 F, Pour Point 450 F	
MEC-140	Active	Greese, Synthetic Oil Sees, PAO, ISO VG 100, Minimum VI 150, Lithium Complex Thiotener, AW, R&O, non-EP, NLGI 2	
MEC-141	Active	Comment of Base 180 WG 400 Malayan VI 2 Bashan Comment	
MEC-142	Active	Trickman, Service Temp Renge - 20 to 140 C, EP, NLGI 2 Greese, Synthetic OE Bees, Silcons, ISO VG 100, Lithium Bosp Trickman, Extreme Low Temperature Service, Service Temp Renge -73 to 204 C (-100 to 400 P), RAO, NLGI 1	
MEC-148	Active	Gresse, Synthetic Oil Bose, PAO, ISO VG 128, Minimum VI 190, Lithium Soap Thickener, EP, NLGI Q, Special Tribotropic Grease for Stock Coal	
MEC-144	Active	Feeder Geerboxes Oil. Bio-Based, Distectric, Insulating, Transformer	Equivalent requirements to MEC-127
MEC-146	Active	Grease, Synthetic Oil Base, Silicone, ISO VG 125, Lithium Scap Thickener, High Temperature Service, Service Temp Range -40C to 204 C (-40F to 400 F), RSO, NLGI 2	
		Oil, Synthetic, Tri-Aryl Phosphate Eeter, Hydraulic, Fire-Resistant, EHC Fluid - Must Contain <416 TPP - (Serne ee MEC-028, except for the	GE Specifications 46357 and D50A126
MEC-148	Active	Fluid - Must Contain <4% TPP - (Same as MEC-029, except for the limitation on TPP concentration)	Siemens (formerly Westinghouse) steam turbine EH control fluid specification 53740AL

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1	Cubalen 80 PPM, Phosp 300 PPM, Budler 800 PPM, Budler 800 PPM 305 - 430 PPM	Section Strick, Plant Sec 1974, Buller 800 PT 305 -430 PPM			Marghana 25 PPM	Mar 5000 PPM	ultur 2000 PFIA.	Marphores 220 - 400 F utber 5500 FFM,	le metalle additives	haspharts 500 - 2000 P haspharts 500 - 1010 teller 3500 PPM, Zho	Metan 290 - 2910 P Transferen 900 - 1100 Mar 3000 PPM, Zho	Marken 2100 - 2000 P Transferren 670 - 1100 Bleen 8 PFM, Bulka 2 PFM, Zher 1000 - 1300	Boson 63 - 121 PPM, G 62 - 78 PPM, Phesphe 284 PPM, 848er 1084.				Pheuphorus 250-350 PFM.	Phesphorus 25 PPM			Phasphorus 1200-120	Phespharus 220 - 400 Sufar 5900 PFM,	Phosphorus 380 - 570		Phosphorus 1905 - 210
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. Appl COM / Int. Specification	0 2 2 1	Darliem H-O & HF-2, Victors (Entry) 1. 206-8 & M-0000-8; Pasies should 5 and W-0000-8. Pasies should 5 and W-0000-9. Pasies should 5 and W-0000-9. Pasies should be seen from the same for the same should be seen from the same should be same	1						E GER-16306.1			API CO. 4.CE.JD.I.GP.4.CP.4.CF.5.5 B1.50- ED-4.LE.4.200 Wile, M.L.4.4815.DO CHA.4.200 Mais ED-4.2 and ED-4. EB-1. Cannates NTC-400, Calmplin 10.3, 1 Allian Type C4.Flats.												considerate the thresh between the demonstrate or the segment of the pendals from the segment of the pendals from the segment of the segment	
Converte Lateria and Specification	Olf, Minurel, Hydradio & General Puppese, Arthura, Filici, ISO VG 22, Michan VI 128, Wide Temperatan Reage, Putz Patri e -30 F		Green, Mineral Off Base, 180 VG 220, Minimum VI 80, Libban Complex Thickens, Mullicurpose,	EP, N&O, N&O 2 (Sense es MEC-119)	SO VG 480, Metrum VI B5	220, Metinum VI 86	Mainten VI 85	ON, Mineral, Guer, EP, AGMA NEP, 180 VG 690, Medinjan VJ 65	Off, Mineral, Tuebbra, Simma, Palco, ISO VG 22, Medinum VI 100	DE, Mineri, Engin., SAE 10W APLOTS-SHEJ	Ol, Mineri, Engles, SAE 30 API OF, CF-2, CD, CE, CD-II -80-8145J	MECOTI OL MINNEL ENGIN, BAE 19949 API CO-	Fldd, Automatic Transcribeien, Morean & Decre M	Gressa, Mineral Oll Bases, 180 VO 220; Minimum VI Bd, Lifekam Compiler Thisburner, Malijatepase, Hgh Yesepaselans, EP: NSO, NA.03 1			Obsolving (JAE MEC-077) Oli, Minnest, Gear, EP, AGMA REP, EAE 140, AFI GL/6	Oil, Mineral, Air Cerupenssor, Andreser, PAID, Devuksiffers, ISO VG 100	Greese, Mirerel Of Bane, 160 VS 2004, Medinum VI (ENTER), Liblium Seap or Liblium Complex Thickness, Coupling On: 104, 1840, M. et et.	Owese, Systhetic OS Barn, PAO, 160 VO 460 (200-200 8US @ 210F), Medium M 130, EP. RAO, Ulbias Camber Pictorie Millerson	N. Cil. 1,5 to 2 Ol. Synthetic PAD. Gear, EP, AGARA SEP, SAE			Ones, Ment Of and Asphalis Bob. Ones, Ment Of and Asphalis Bob. Labour, Bob. Anderson, Tr Ingeliated to the Company of th	Od, Bynthwise PAD, Gear, AGNA 7, ISQ Minhaum VI 180
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MEG-085 Oil Minned Engine, SAE 40, U.S. Milliony Mill.	ECOLE OIL Synthetis PAO, Gear, EP, AGMA SEP, IBO	POOST OR Symbolic PAO, Gear, New EP, R&O, 180	VO 100, Methods VI 130 (Sens as NEC-108)	to ISO VG ZZ, Mylmum yi jisi rai, Cempoundlei, Lew Speed Bearing &	and Compounded, Lew Spr. of Bearing &	JAA A, 180 VO 180 A, PAO, 180 VO 22. Soap of Libban	NEO, NLSI 1 N, PAO, ISO VG 480, Eq Ishan Complex	BOVE 480. Chy Titchese, Hgh N.Gl 2 pleady Ste	to ac, Mineral Off Bases, ISO VG 480, Millenum (BVTER), Cacklam Ballbrates Thickness, High mpassium Greece, EP, RACO, NLOI 1	Green, Milners Of Bren, 180 VG 460, Melanum VI (SVTEV), Calcium Bullerain Thickney, High Temperatura Green, RF, RAO, NLOI 2	ses, Systhetic Of Base, Sticane, 180 V9 IER BASE CH. GRADE, Midwes W IER, Edwine Hgy Tengember, N. 61 3	A. Misseld, Hydradio & Paid Preser presidentes, 180 OB Type 144, Non-Zhe Byape, PSO, 160 VO 64, Mellesses VI 85,	A (ENTER, Geor., Bernikki, M.O. 00	Cit, Minusi er Byrdhofts er Byrdhofts Blimei, Englan, SAR (ONYX), 1.SAIC GF-E, CF-2, Chydar Mil-Assil (Nex. 1)	MECADH OIL Byrahale PAO, Gurs, EP, Adden 7EP, 180	Gressa, Byrthods Cli Basa, PAC, ISO VG 22, Maintan VI SNTEV, Crystic Clay Thickness, High & Law Temperatus, N.Cli 1,5	A. Tumanisates A. Ohio - See OEM	ete, Mirred Cil Baze, ISO VO 100, Mehrum ENTER, Libian Seap Thiberer, Bestie In Besting Green, N.G. 3	as, Minusel Cit Base, 15O VG 1000, Nam VI (886 s.bt. & 40; 57 e.b.T @ 100), an Scap Thislance, Searing Grasse, NLGI 1	ode PAC, Air Cempresser, IBO VG 48	P Companies, NO VO	ad Cure & Wheel Flarge, N.Ol 1 ans to State of lowe Secreto Fig 8F 2185	Dave, Bladgradeske, Hotelde & Purpose, 160 VO 49, Minimum VI 85	a Thelmow, High 6 & Roler Bouring MEST LUBRICANT	ia, Symbols Of Beat, Silboon, 160 VG ER BASE OIL GRACE, Medmum VI ERS, Caustine	beath, Arthrest (Non-	ir Contynesser, 180 VB	4, Meneri, Doro Train & Transmener, BUE. 9, Albern CL. Categiller TO-L. Etseld polymers, Konstitut upplement, Victoria (Edied) 1-2000-8, 27 TE-AL, OOC for larges conventor	an, Systemic Of Base, Charler, 160 VB., Insur VI (ENTER), Insupert Gd Thicheser, Temperature, ALGI 2
Des. Gr.2, CO.4.	Made FAO. Geer.	Shalls PAD, Goar,	deeds PAO, Hydro	MAC ISO VG 72.	seel, Cempounds	, System Cylinder, A. By 120, Lithers on VI 120, Lithers	, Systems, EP. To Systems of Ber The W. (ENTER), LI	Mary Office	TER, Catam & Bern and Contact & Cont	Mercy Of Bearing House, E.	R. BASE OIL GRA	Mark Hotels & Market	Grass, Syrthele Of Bass, Polysh 180 VG 150, Minimum VI (ENTER) Uthers Gray Thickerse, Semilladd,	hand or Systems, N. s, SAE 10W20, N. or 145,6205 (Per.	ynthate PAO, Gar.	um VI (ENTER), C I Low Temperature	Of, Morel, Mathemas, Tennolodes & Hybrids, Tester Froi Divo - See OEM Specification Requirements	WER LINES	m. Mendales an Mine of a	yethete PAO, Air	Marine N 88	Tel Care & Western to State of to	Pres. 180V	san, Marcal Cli Bane, 150 VG 190, M D. Synthelic Polyters Talehaer. High repenters Greens, End & Poline Bearing see, NLG 2. HILST MEET LLIBROAM CLIMPIANTE NG OCCY, ASSES	IN Symbols Of B.	BOVE 32, MAC	Selmun VI 85	De. 27 TE-M. Of	a, System, Old.
NECOSS OL MA	MECOLE VEZZ	MECOST OR By	NE 20 06 94	MECON OL MA	M. 10		AREC-073 Medinu	MEC-074 Temps	MECONE VIEW	MECON VIEW	MEC.OT PENTE	MEC.OTS Traves	MECANO 180 V	MECOST Engin	MECOR OF P	MECON MAN	A PORT	MECOSS VIEW	MED OF STREET	MEC-087 OL 8	MED OF SER.	MED OF PARTY	MEC-180 OF B	Grees VIBC,	MEC-102 (DAME	MEC-104 Zimi,	MEC-108 (0.8)	MEC-107 sept	MEC-108 Meter

The Specificities to be used for all Molecunian Emerge mainries. Attachment 2 - MidAmenican Energy Lube Ol Technical Specification Middenties Emergy Lube Ol Technical Specification

02	MEC-111 Y	MECA12 V	MECA13	A 11-03	MEC-115 O	MEC-116 V		MEC-120 A	EC-123	MEC-124	MEC-138	MEC-127		MEO-130	MEC-131	MEC-136	MEC-137	ME10-138	MEC-138	#C-10	MC-141	MEC-142	MECA45	MEC-144	-
MEC-100 CA Minus, Engin, EME 10H40, API 881 / AMI 844, BANC GPS.	Green, Milmeri Cili Bane, ISO VO 15D, Mahrium VI IS, Marahum Cangler, Thelarure, Mathyrapa, High Tamporatura Greene, EP, PRO, NAGI 2	Green, Synthete Cd Bare, (ENTER TYPE), 180 VO LJ, Mehmen VI St, Alambara Complex Theliener, Searing Green, EP, R&C, N.Cri 2	Greate, Spritteds CR Bean, (SATTRF TYPE), ISO VG 1370, For Humfy-Leaded Low-Spread Bean Arge, Lifebran Complex Thistoner, EP, R&O,	Genes, Michael Oll Beas, 160 VG 100, Malenan M ENTER, Malvan Coap Thickness, M Adjusteren Comma, Electic Adea Beath Comma, Landdele Garan, No. 25, P. N. CI		Grasse, Syntholis Cil Bura, (ENTER TYPE), (60) VG 102, Minimum VI 103, Syntholis Polyum; Thisborner, Bell & Polius Bearing, Non-EP, R&O.	NLCA 2 MECA 18 OU, Symbols PMO, Gwa, EP, AGMA 4EP, 180	Oli, Mineral, I judesile & General Purpus, Anthese: R&O, 180 VG 100, Melenum VI 85 - Dup I Joseph Repol McCA58	Garren, Synthetic Cit Bees, PAG, 180 VG 230, Michanan VI 130, EP, MCo, Whe Temperature Parge, Lifther Compiler Thickness, N.Cit 2	Green, Minsel CD Base, ISO VG 180, Minsen V Rt. Libban 12-Mydespolesten Thisburne, Midgarpson, EP, PR.C., N.Gl O (Serro as MEC-		Oli, Dielestri, Transformer, ANBJAASTN IDARZ- DB Type II Inhibited Oli, GE A1SASAR (10CA), Wastinghauze Epositication POS 88072AG		8 9 3 5		29995		Oli Bysthelia, Edul-Organyimpinala Edut, Non-EP, No Fidden Reducing Addition, 40 day In tra Gale of From Farey, Mark, 700 to Hill, L258M, RO 23 Mens, 62 ER 9700 day C. 8,1	SHE	8526	888	985	844	1919	Grenas, Systember, Silvens Oil Boss, (80 VG 125 @ 25 dag C, Libburn Soop Thisburns, High
		•			•		1	1		6	6														
Kandal OT-1 1P Inter Of 1014-40	and Maddrary On. sa	ad Maritray Great	Triben 220 A2 gruns	P. Profes	otre Duty Geer Off 6.3	Polyto 12 grass	on SP Plus Geor Of 150	Mag. Stew AVV Hydroulle CIS -	Filton 220 62 Grusse	Dynath LEP 40 Green	radio L.EP 62 Grane	Transferrer Of	Myerel Congress Of	Present of	No Preduct	Specen Turkina Cd 22 No Product No Product	No Product	R Production	Syndostial PAO 32	No Product	No President	No Product	No Predest	No Product	1
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Colebam 2001 - Step pro Hatherbarn So Priv. President 70 - Step Priv. Paul 200 - Priv. Therbin 56 - I PPM. Therbin 56 - I PPM. Therbin 56 - I					66F (COC) Phesphera 220 - 400 PPM, 618hr 3800 PPM,		Phaspheus 253-422 FPM, 84hr 9800-8400 PPM, Zhe S	Coleban SEPPIA, Plansplants 1987 (DOG) 34EPTA, Bally 800PPA, Zhu 345 - 450 PPA				5003 488	HEF (COC) No matelia additions			ET (DOG) No medalle addition			P (COC) No metalls addition						
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Alta: hment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricants

- 400		T		
MCCOI Specification Number	Manufacturer	Exclusive Norma	Status	Deviation From Specification
MEC-001	Conoco	Conoco Megaflow AW HVI Hydraulic Cfl 32	Meets Specifications	
MEC-001 MEC-001	Shell Texaco	Shell Tellus S2 V 32 (Formerly Shell Tellus Offs T 92) Texaco Rando HDZ 32	Meets Specifications Meets Specifications	
MEC-002	Conoco	Conoco Megaflow AW Hydraulic OII 68	Meets Specifications	
MEC-002	Lubriplate	Lubriplate HO-2	Acceptable - Qualified	The product data sheet for this product does not list any OEM
MEC-002	Shell	Shell Tellus 52 M 66 (Formerly Shell Tellus Oils 68)	Meets Specifications	endorsements.
MEC-002 MEC-002	Texaco	Texaco Rando HD 68	Meets Specifications	
MEC-003	Conoco	Conace Multiplex Red No. 2	Meets Specifications	
MEC-008	Shell	Shell Retinax LX 2 Grease	Acceptable - Qualified	The base oil viacosity of this product is 180 vs 220 specified.
MEC-004 MEC-004	Conoco Shell	Conaco Multipurpose R&O 460 Shell Mortina Oil SD 460 (See Spec MEC-061)	Meets Specifications Meets Specifications	
MEC-005	Conoco	Conoce Extra Duty Gear Off 220	Meets Specifications	
MEC-005	Mobili	Mobilgeer 600 XP 220 (Formerly Mobilgeer 630 - Discontinued 12/1/08)	Meets Specifications	
MEC-005	She ii	Shell Omela S2 G 220 (Formerly Shell Omela Oil 220)	Meets Specifications	
MEC-005	Texaco	Texaco Merope 220	Meets Specifications	
WEC-006	Conoco	Conoco Extra Duty Gear Oil 460	Meets Specifications	
MEC-006	Mobil	Mobilgaer 600 XP 460 (Formerly Mobilgaer 634 - Discontinued 12/1/08)	Meets Specifications	
MEC-006	Shell	Shell Omaia 52 G 460 (Formerly Shell Omaia Oil 460)	Meets Specifications	
MEC-006 MEC-007	Texaco	Texaco Merope 460	Meets Specifications	
MEC-007 MEC-007	Amoco	Amoco Permagear 680 Conoco Extra Duty Gear Oil 680	Unacceptable Acceptable - Qualified	Does not meet the VI specification
MEC-007	Mobil	Mobilgeer 600 XP 680	Acceptable - Qualified	The VI (viscosity Index) of this product is 90 vs 95 specified.
MEC-007	Shell	Shell Ornels S2 G 680 (Formerly Shell Ornels Of 680)	Meets Specifications	, , , , , , , , , , , , , , , , , , , ,
MEC-007 MEC-008	Texaco	Texaco Meropa 680 Chevron GST 32 (Filtered)	Meets Specifications Meets Specifications	
M&C-008	Conoco	Conoco Turbine Oil 32 (Filtered to Diemond Class)	Moots Specifications	
MEC-008	Shell	Shell Turbo Oil T 32 (Filtered)	Meets Specifications	
MEC-009 MEC-009	Conoco Shell	Conoco TSX Heavy Duty Motor Off 10W Shelf Rotalle T Single Grade Oli 10W Off	Meets Specifications Meets Specifications	
MEC-009	Техасо	Texaco Ursa Super Plus SP Single Grade Motor Oli 10W	Meets Specifications	
MEC-010	Ameco	Ameco 300 30	Unacceptable	
MEC-010 MEC-010	Conoco Shell	Conoco TSK Heavy Duty Motor Of 80	Meets Specifications Meets Specifications	
MEC-010	Texaco	Sheli Rotella T Single Grade Olis 30 Oli Texaco Uran Super Plus SP 30	Meets Specifications	
MEC-011	Conoco	Conoco HD Fleet Supreme EC 15W40	Meets Specifications	
	John Deere	John Deere Torq-Guard 15W40	Acceptable - Qualified	
	Mobil	Mobil Delvac i 15W-40 Pennzoll Long Life Heavy Duty Engine Off 15W40	Acceptable - Qualified Acceptable - Qualified	
	Shell	Shell Rotella T Multigrade 15W-40 Oli	Meets Specifications	
	Текасо	Texaco Ursa Super Plus SP 15W40	Meets Specifications	
	Conoco	Conoco Super ATF	Meets Specifications	
MEC-012	Shell	Shell Spirax S3 ATF MD3 (Formerly Formula Shell ATF Dexron III - Mercon)	Meets Specifications	
	Сопосо	Conoco Multiplex Red No. 1	Acceptable - Qualified	Base oil viscosity of this product is 170 vs 220 specified.
	Shell Shell	Shell Gadus S3 V220C 1 (Formerly Shell Albida EP 1) Shell Retinax CMX 1	Acceptable - Qualified	T. L
	Chevron	Chevron Delo Grease EP 0		The base oil viscosity of this product is 180 vs 220 specified. The base oil viscosity of this product is 220 vs the 160 specified.
MEC-014	Conoco	Conoco Multiplex Red No. 0	Meets Specifications	
MEC-014	Shell	Shell Gadus S2 V220 0 (Formerly Shell Alvania Greasa EP(LF) 0)	Acceptable - Qualified	This product contains a lithium soap thickaner vs the lithium complex specified.
	_			This product (apparently) contains a lithium scap thickener vs the
MEC-014	Техасо	Texaco MultiFek EP 0	Acceptable - Qualified	lithium complex specified.
MEC-015	Congo	Conoco Food Machinery Greese No. 2		Product is not a synthetic and does not meet the required temperature range.
MEC-015	Lubriplate	Lubripiete SFL Greese 2		The lower operating temperature limit of this product is listed as -25 F vs the specification of -40 F.
MEC-015	Shell	Shell Cassella EPS 2		The operating temperature range of this product is listed as -31 F to
			2000 E0000 0000000	248 F vs -40 to 320 F specified.
	Conoco	Conoco Universal Gear Lube 80W-90 (Same as spec MEC-078) Conoco Universal Gear Lube 85W-140	Meets Specifications Meets Specifications	
MEC-017	Shelf	She ii Spirax HD 85W-140	Meets Specifications	
	Conoco	Conoco Multipurpose R&O 100	Meets Specifications	
	Shell Conoco	Shell Corena Oil P 100 Conoco Coupling Gresse	Meets Specifications Meets Specifications	
	Shell	Shell Alvania Grease CG 0/1.	Meets Specifications	
	Chevron	Chevron Ulti-Plex® Synthetic Greese EP	Meets Specifications	
NEC-020	Conoco	Conoco Triton 460 No. 1.5 Grease	Meets Specifications	The product does not contain an EP aciditive. An EP additive is
NEC-020	Mobil	Mobil Mobilith SHC Series 460 No. 1.5 Grease		specified.
	Shell	NO PRODUCT IDENTIFIED	Unacceptable	
	Conoco Shafi	Conoco Triton Synthetic Gear Lube 75W90 Shell Spirax ASX R SAE 75W-90	Meets Specifications Meets Specifications	
AEC-022	Conoco	Coneco Extra Duty Gear Oil 100	Meets Specifications	
AEC-022	Shell	Shell Omain S2 G 100 (Formerly Shell Omain Oil 100)	Meets Specifications	
	Conoco Shell	Conoco Syncon R&O 68 Shell Corena S4 R 68 (Formerly Shell Corena AS 68)	Acceptable - Qualified	Does not meet the VI specification.
	Уекасо	Texace Cetus PAO 68		
	Amovis	Amovis 8X Open Gear Lube		
4EC-02S	Chevron	Chevron Open Gear Grease		Base oil viscosity in this product is much higher than specified and
	•			product does not come with diffuent added. Significant deviation from viscosity specification. Rejected by Mark
	Conoco		On acceptable	Jeratowski,
	Mobili Whitmore	Mobile Geer Lube 575NC Whitmore Envirolube Heavy Mill Grasse W182	Unacceptable - Not Established for N4 Mills Meets Specifications	Check PDS
	Conoco	Conoco Syncon R&O 460	Meets Specifications Meets Specifications	
	Mobil	Mobil SHC 634	***************************************	
	She il Texaco	Shell Morlina S4 B 460 (Formerly Shell Omala Fluid RL 460) Texaco Pinnacia 460		
	Texaco Chevron	Chevron A/O 220		
	Coneco	Conoco Multipurpose R&O 220	Meets Specifications	
IEC-027 S	Shell	Shell Morlins Off SD 220 (DOES NOT MEET MEC SPEC - CONTAINS NO ANTIWEAR)		
-	Гекисо	ANTIWEAR) Texaco Rando HD 220		
IEC-028 D	Dow Corning	Dow Corning Molykote 41		
	Conoco	No Product Proposed		
	CL. Conoco	Pyrquel EHC No Product Proposed		
	ihell	Shell Turbo Fluid DR 46		
	Conoco	Conaco Syncon R&O 32	Meets Specifications	
	iheli Inxaco	Shell Corene S4 R 32 (Formerly Shell Corene A5 32) Texaco Pinnacle 32		
	Conoco		Meets Specifications	

Attachment 2 - MidAmerican Energy Lube Oli Technical Specification Regarded Lubricania

MEC-081	Mobil	Mobilgear 600 XP 320 (Formerly Mobilgear 632 - Discontinued 12/1/08)		
MEC-081	Shell	Shell Ornala S2 G 320 (Formerly Shell Ornala Oil 320)		
MEC-081.	Texaco	Texaco Meropa 320		
MEC-032 MEC-032	Shell Shell	Shell Gadus S3 V220C 1 Shell Retinax CMX 1 (CONTAINS MOLY EP ADDITIVE) (DOES NOT MEET SPEC - VISCOSITY IS TOO HIGH)		
MEC-032	Shell	Shell Retines LX 1 (Not Moly) (DOES NOT MEET SPEC - VISCOSITY IS TOO LOW)	•	
MEC-082	Техасо	Tezaco Starplez 1 EP Auto-Luber (Texaco Starplez Moly 1 PC 221944 - Discontinued 12/08/08)		
MEC-083	Солосо	Conoco Syndustrial Rotary Compressor Oil (Product not currently available from Conco in ISO 86) Shell Corene Fluid PGE 68	Meets Specifications	
MEC-083	Shell	Conoco Industrial Oli 115 (ISO 22) (Same spec as MEC-044)	Meets Specifications	
MEC-035	Conoco	Conoco Syndustrial FR Hydraulic Fluid 46	Meets Specifications	
MEC-085	Desce	DASCO FR 355-2		
MEC-096	Conoco	Conoco Syncon R&C 220 Shell Morlina S4 B 220 (Formerly Shell Ornala Fluid RL 220)	Acceptable - Qualified	Does not meet the VI specification.
			Hammanda	Product is not a synthetic oil and does not meet base oil viscosity
MEC-037	Conoco	Conoco Food Machinery Grease No. 2	Unacceptable	specification.
MEC-097 MEC-098	Lubriplate	Lubriplate 1444 Conoco Turbine Oil 32	Meets Specifications	
MEC-088	Shell	Shell Turbo Off T 32	meets specifications	
MEC-088	Техасо	Texaco Regal R&O 32		
MEC-099	Conaco	Conoco Multipurpose R&O 100	Acceptable - Qualified	Product data sheet does not list all required OEM endorsements.
MEG-099	Lubriplete	Lubriplate ZF 100 (ZINC FREE) Hydraulic Oil		
MEC-089	Pulsafooder	Pulsakube #1		
MEC-089 MEC-089	Shell	Shell Circulating Off 100 Texaco Regal AW 100		
MEC-040	Chesterton	Chesterton 601 Chain Drive and Bushing Lubricant	Meets Specifications	
MEC-040	Lubriplate	Lubriplate Penetrating Chain and Cable Fluid	Acceptable - Qualified	Does not contain an EP additive.
MEC-040	Conoco	No Product Proposed		Conoco product data sheet shows that the product contains a non-
MEC-041	Conoco	Conoco Multipurpose R&O 320	Acceptable - Qualified	zinc antiwear additive.
MEC-041	Shell	Shell Mortina S8 6A 320 (Formerly Shell Mortina Oil SD 320)		
MEC-041 MEC-042	Conoco	Texaco Regal R&O 520 Conoco Syndustrial R&O 65	Meets Specifications	
MEC-042	Shell	Shell Torcula Fluid DE 68	mana specificanions	
MEC-042	Texaco	Texaco Catus DE 68		
MEC-049	Chevron	Chevron GST 68 Canaca Turbine Oli 68	Meets Specifications	
MEC-043	Shell	Shell Turbo Oil T 68		
MEC-043	Texaco	Yesteco Regal R&O 68		
MEC-045 MEC-045	Chevron	Chevron Utility Ofi LVI 150 No Product Proposed		
MEC-045	Shell	Shell Carnes Off E 150		
MEC-D45	Texaco	Texaco Alcaid 150 Conoco Extra Duty Gear Oli 150		
	Conoco		Meets Specifications	
MEC-046	Mobil	Mobilgaer 600 XP 150 (Formerly Mobilgeer 629 - Discontinued 12/1/06)		
MEC-046 MEC-048	Shell Texaco	Shell Omale \$2 G 150 (Formerly Shell Omale Oil 150) Texaco Meropa 150		
MEC-047	Conoco	Conoco Megaplex XDS Gresse No. 2	Meets Specifications	
MEC-047	Shell	Shell Retinax CMX 2 Greese (CONTAINS MOLY EP ADDITIVE)		
MEC-047 MEC-048	Texaco Conoco	Texaco Starplex Moly MPGM 2 No Product Proposed		
MEC-048	Shell	Shell Gadus 52 V100 2 (Formerly Shell Alvania Rt. 2 Greese)		
MEC-049	Conace	Conoco Powerdrive Fluid 30	Meets Specifications	
MEC-049 MEC-050	Shell	Shell Spirax S4 CX 30 (Formerly Shell Donax TC 30) No Product Proposed		
MEC-050	Amoco	Rykosafe 1487		
MEC-050	Темисо	Texaco 904 Grease W NLGI 1/2		
MEC-051 MEC-051	Coneco	Conoco Syncon R&O 150 Mobil SHC 629	Meets Specifications	
MEC-051	Shell	Shell Morlina 54 B 150 (Formerly Shell Omala Fluid RL 150)		
MEC-051 MEC-058	Chevron	Texaco Pinnade 150 Chevron Black Pearl EP 2 (Only in 14 oz cartridge on 7/7/11)	Acceptable - Does Not Meet Spec	
MEC-058	Chevron	Chevron A/kon EP2 Premium (Discontinued) (Reinstated on 7/7/11)	Accelerate - Posts upr upper share	
MEC-058	Солосо	Conoco Polytac EP Grease No. 2	Acceptable - Qualified	Does not meet the viscosity, VI, or PTFE thickmer specification.
MEC-QS3	Shell	Mone Available		
MEC-054 MEC-054	Conoco Mobil	Conoco Turbine Oil 100	Meets Specifications	
MEC-054	Shell	Shell Morline S3 8A 100 (Formerly Shell Morline OH SD 100)		
MEC-054 MEC-055	Texaco	Texaco Regal R&O 100 None - Obsolete Spec		
MEC-056	None - Obsolete Spec Amsoli	Arnsoll PTN 320	Meets Specifications	
MEC-056	Conoco	Conoco Syncon EP Plus Gear Oil 320	Meets Specifications	
MEC-056 MEC-056	Mobil Shell	Mobil SHC 320 Shell Omale S4 GX 320 (Formerly Shell Omale HD 320)		
MEC-056	Texaco	Texaco Pinnacia EP 520		
MEC-057	Lubripiete	Lubripiete SPGD Ultra 1000		
MEC-057 MEC-057	Mobil	Mobil SHC 639 No Product Proposed	Acceptable - Qualified	Product does not meet viscosity specification.
MEC-057	Техисо	Texaco Pinnacie EP 1000		
MEC-058 MEC-058	Conoco	Conaca Syncon R&O 680 Mobil SHC 636	Meets Specifications	
MEC-058	Shell	Shell Morline S4 B 680 (Formerly Shell Ornala Fluid RL 680)		
MEC-058	Техасо	Taxaco Pinnacie 680		
MEC-059 MEC-059	Conoco	Conoco Megaflow AW HVI Hydraulic Oil 46 Mabil DTE 15M	Meets Specifications	
MEC-Q59	Shell	Shell Tellus S2 V 46 (Formerly Shell Tellus Olis T 46)		
MEC-059	Техасо	Texaco Rando HDZ 46		
MEC-060	Conoco	Conoco Multipurpose R&O 220	Unacceptable	Product contains zinc-free antiwest; but specification calls for no snitwear.
MEC-DED	Shell	Shell Morline SS BA 220 (Formerly Shell Morline Oil SD 220)		
MEC-060	Текасо	Texaco Regal R&O 220		
MEC-061	Conoco	Conoco Multipurpose R&O 460	Unacceptable	Product contains zinc-free antiwear; but specification calls for no anitwear.
MEC-ORI	Shell	Shell Morline S3 BA 460 (Formerly Shell Morlina Oil SD 460)		
MEC-061	Текасо	Texaco Regal R&D 460	Mark Frankling	
MEC-064 MEC-064	Conoco Shell	Conoco Turbine Oil 46 Shell Turbo Oil T 46	Meets Specifications	
MEC-064	Texaco	Texaco Regal R&O 46		
MEC-065 MEC-065	Conoco Shell	Conoco TSX Heavy Duty Motor Off 40 She ii Rotella T 40	Maets Specifications	
		and the state of t		

Attachment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricants

	-	Texaco Ursa Super Plus 40		
MEC-085	Texaco Conoco		Meets Specifications	
MEC-066 MEC-066	Shell	Coneco Syncon EP Plus Gear Oil 220 Shell Omale 34 GX 220 (Formerly Shell Omale Fluid HD 220)	meets specifications	
MEC-066	Texaco	Texaco Pinnacia EP 220		
MEC-067	Conoco	Coneco Syncon R&O 100	Meets Specifications	
MEC-067	Texaco	Tetaco Pintacia 100	wieers Specifications	
			Meets Specifications	
MEC-069	Conoco	Conoco Syncon AW Hydraulic Fluid 22		
MEC-070	Conoco	Conoco Compounded Gear Oli 460	Maets Specifications	
MEC-070	Shell	Shell Omele S1 W 460 (Formerly Shell Valveta J 460)		
MEC-070	Текасо	Texaco Vanguerd 460		
MEC-071	Conoco	Conoco Compounded Gear Oil 680	Meets Specifications	
MEC-071	Shail	Sheli Omela 51 W 680 (Formerly Sheli Valvata J 680)		
MEC-072	Conoco	Conoco Triton Low Temp Grease No. 1	Meets Specifications	
MEC-073	Conoco	Conoco Triton ELL Gresse No. 00	Masts Specifications	
MEC-073	Mobil	Mobilith SHC 007		
MEC-073	Shell	Shell Retinax TL 00 Grease		
MEC-074	Conoco	Conoco Bentone Gresse No. 2	Meets Specifications	
MEC-074	Lubriplate	Lubripiate High Temp		
MEC-07S	Conoco	Conoco Omnigard Grassa No. 1	Acceptable - Qualified	Product does not meet base oil viscosity. Qualified based on past
MEC-0/3	Lanoco	Collects Offinidate of mean (sec. 7	receptation - Quantities	use.
MEC-076	Conoco	Conoco Omnigard Grease No. 2	Acceptable - Qualified	Product does not meet base oil viscosity. Qualified based on past
MEC-U/6	Conoco	Conoco Omnigara Grease No. 2	Acceptaine - Quained	use.
MEC-077	Dow Corning	Dow Corning 111 Valve Lube & Sealant		
MEC-077	Conoco	No Product Proposed		
MEC-079	Conoco	Conoco Ecoterre Hydraulic Oil 68	Meets Specifications	
MEC-079	Shell	Shell Tellus S8 M 68 (Formerly Shell Tellus S Olls 68)		
MEC-079	Техкасо	Texaco Rando HD Ashless 68		
MEC-080	Anderol	Anderol Royco 636		
				The Product Data Sheet for this product has not been reviewed to
MEC-080	Diamond Power	Diamond Power 907135-0007		verify that specs are met.
MEC-080	Conoco	No Product Proposed		
MEC-GRO	Shell	Shell Tivela WB (Formerly Shell Tivela Compound A)		
MEC-087	Conoco	Conoco Super All Season Symblend 10W-50	Meets Specifications	
MEC-087	Shell	Shell Formula Shell 10W-80		
MEC-087	Тепасо	Texace Haveline Motor Off 10W-30		
MEC-089	None - Obsolete Spec	None - Obcolete Spec		
MEC-091	Conoco	Conoco Syncon EP Plus Geer Off 460	Meets Specifictions	
MEC-091	Shell	Shell Omale S4 GX 460 (Formerly Shell Omale Fluid HD 460)		
MEC-091	Техно	Texaco Pinnacie EP 460		
MEC-095	Mobil	Mobil SHC MobilTemp 32		
MEC-098	Conoco	No Product Proposed		
MEC-094	Conoco	Conoco Powertran Fluid	Meets Specifications	
MEC-095	Conoco	No Product Proposed	weers aparellications	
MEC-095	Shefi			
MEC-083	Snell	Shell Cyprine RA (Shells spreadsheet of 7/7/11 gives the same product as for MEC-095 -		
MEC-096	Shell	(Sneas spreadsneet or ////11 gives the same product as for MEC-095 - Check this out)		
B400 000				
MEC-096	Conoco	No Product Proposed		
MEC-097	Сопосо	Coneco Syncon R&O 46	Meets Specifications	
MEC-097	Shell	Shell Corene S4 R 46 (Formerly Shell Corene AS 46)		
MEC-097	Texaco	Texaco Cetus PAO 45		
MEC-098	Conoco	Conoco Syndustrial R&O 150	Meets Specifications	
MEC-098	Shell	Shell Corena AP 150 Syn		
MEC-099	ELM Industrial	ELM Industrial Soy Trak # 1		
MEC-099	Conoco	No Product Proposed		
MEC-100	Conoco	Conoco Ecoterra Hydraulic Oli 46	Acceptable - Qualified	Product is not a bio-based oil; but it meets environemtal
			- Chaintan	requiements.
MEC-100	ELM in dustrial	ELM Industrial Hydraulic Snow Grade 46		
MEC-101	Chevron	Chevron SRI Grease 2	Acceptable - Qualified	Product data sheet does not have the GEK 46382F endorsement.
MILOTANA	CHANDI	Charlest and Grand A	Acceptance - Chaman	Product data sneet odes not have the GER 46382F endorsement.
MEC-101	Conoco	Conoco Polytac Grease No. 2	Acceptable - Qualified	Bredent data should be seen been all states are seen
			urrehmore - danising	Product data sheet does not have the GEK 46382F endorsement.
MEC-102	Linkbelt	Linidelt 2017Y001-S Silicone Fluid		
MEC-102	Conoco	No Product Proposed		
MEC-104	Conoco	Conoco Syncon AW Hydraulic Fluid 32	Meets Specification	
MEC-104	Shell	Shell Tellus HD 32		
MEC-105	Conoco	Conoco Syndustrial R&O 100	Meets Specification	
MEC-105	Shell	Shell Corena S4 P 100 (Formerly Shell Corena AP 100)		
MEC-107	Cenoco	Conoco Powerdrive 10W	Meets Specification	
MEC-107	Shell	Shell Spirax 54 CX 10W (Formerly Shell Donax TC 10W)		
MEC-108	Conoco	No Product Proposed		
MEC-108	Shell	Shell AeroShell Gresse 7		
MEC-109	Conoco	Conoco Kendali GT-1 HP Meter Oil 10W-40	Meets Specification	
MEC-309	Shell	Shell Formule Shell 10W40		
MEC-111	Conoco	Conoco Food Machinery Greese No. 2	Acceptable - Qualified	Product does not meet the viscosity specification.
				Product does not the viscosity specification. Vi has not been
MEC-111	Lubripiate	Lubriplate 780 Series No. 2 Grease		validated.
	The state of the s			Product does not meet the viscosity specification and does not have a
MEC-112	Conoco	Conoco Food Machinery Gresse No. 2	Unacceptable	synthetic base off, as specified.
MEC-112	Royal Purple	Royal Purple 68		whenever ness out as sheeting?
			The second secon	Product does not meet the viscosity specification or the NLGI grade
MEC-113	Conoco	Conoco Triton Greese 220 No. 2	Unecceptable	product does not meet the viscosity specification or the NLGI grade specification.
MEC-113	Shell	Shell Albida Grease SDS 1		open metalli.
MEC-113	Conoco	No Product Proposed		
MEC-114 MEC-114	Shell	Shell Gadus S2 V100 3 (Formerly Shell Alvania Grease RL 3)		
MEC-115	Conoco	Conoco Extra Duty Geer Oli 68	Meets Specification	
MEC-115	Shell	Shell Omeia 52 G 68 (Formerly Shell Omeia Oil 68)	mercs apacification	
MEC-116			Il	
MEC-116	Conoco	Conoco Polytac Grasse No. 2 Shell Stamine RLS 2	Unacceptable	Product does not contain the synthetic base oil specified.
MEC-118	Conoco	Shell Staminii RLS 2 Coneco Syncon EP Plus Gear Oil 150	Masta Supplification	
MEC-118 MEC-118		Conoco Syncon EP Plus Gear Oil 150 Shell Omala HD S4 GX 150 (Formarky Shall Omala Floid HD 180)	Meets Specification	
MEC-118	Shell Coneco	Shell Omeis HD 54 GX 150 (Formerly Shall Omeis Fluid HD 180) Conoco Megaflow AW Hydraulic Off 100	Meets Specification	
MEC-120	Lubripiste	Conoco Magariow AW Prydraulic CR 100 Lubriolate HO-2A		
MEC-120	Shell			
MEC-120 MEC-123	Coneco	Shell Tellus 52 M 100 (Formerly Shell Tellus Oil 100) Concor Triton Gresse 220 No. 2	Maets Specification	
MEC-123 MEC-123	Shell	Conoco Triton Grease 220 No. 2 She'i Albidu Grease SLC 220	mana specificated	
		She'll Albida Gresse SLC 220 Conoco Dynalife L-EP Gresse No. 0	Non-Section	
MEC-124 MEC-124	Conoco		Meets Specification	
	Shell	Shell Gadus 52 V220 0 (Formerly Shell Alvania Grassa EP(LF) 0	(Some as MEC-014)	
MEC-126	Coneco	Conoco Dynalife L-EP Grease No. 2	Meets Specification	
MEC-126	Shell	Shell Gadus \$2 V220 2 (Formerly Shell Alvenia Grease EP(UF) 2)	The second secon	
MEC-127	Conoco	Conoco Transformer Oil	Meets Specification	
	Ergon Raffining	Ergon Refining Hyvolt II		
MEC-127	Shell	Shell Diale AX Off		
MEC-127 MEC-127	*******	Conoco Refrigerant Compressor Oil 22	Meets Specification	
MEC-127 MEC-127 MEC-128	Conoco			
MEC-127 MEC-127 MEC-128 MEC-128	None	None		
MEC-127 MEC-127 MEC-128 MEC-128 MEC-128	None Conece	None No Product Proposed		
MEC-127 MEC-127 MEC-128 MEC-128 MEC-129 MEC-129	None Conoco None	None No Product Proposed None		
MEC-127 MEC-127 MEC-128 MEC-128 MEC-129 MEC-129 MEC-130	None Conoco None Kluber North America	None No Product Proposed None Kluber North America Klubersynth GH5-680		
MEC-127 MEC-127 MEC-128 MEC-128 MEC-129 MEC-129	None Conoco None	None No Product Proposed None	Meets Specification	

Attachment 2 - MidAmerican Energy Lube Oil Technical Specification Branded Lubricants

			This product is no longer evallable from Shell (Aliled) as	
MEC-130	Shell	Shell Tivela S-660	of 11/20/2012.	
			BI 11/20/2012.	
MEC-151	Fuchs	Fuchs Geralyn G-SW 2		
MEC-131	Coneco	No Product Proposed		
MEC-131	Shell	Shell Cassida Grease HTS 2		
MEC-133	Conoco	Conoco Syncon Turbine Oli 92	Meets Specification	
MEC-188	Shell	Shell Turbo SG 32		
MEC-134	Lubripiate	Lubriplate PGO 320		
MEC-134	Conoco	No Product Proposed		
MEC-135	She li	Discontinued - Shell Dollum Grassa BRB 2		
MEC-135	Open Spec	Open Spec as of 1/25/2012		
MEC-136	Dow Corning	Discontinued - Dow Corning Molykote G-0101		
MEC-136	Conoco	No Product Proposed		
MEC-136	None	None		
MEG-137	Conece	No Product Proposed		
MEC-137	Tom-Pec	Tom-Pac #2557 Industrial Gresse		
MEC-138	Shell	Aerosheli Turbine Oli 500 (Corrected to Sheli 500 Ester Oli on 7/7/11)		
MEC-138	Coneco	No Product Proposed		
MEC-159	Conece	Conoco Syndustrial R&O 32	Acceptable - Qualified	Product does not meet VI specification (130 specified vs 84).
MEC-139	Chevron	DISCONTINUED -Chevron Syntholube Compressor Oil 32		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MEC-139	Lubriplete	Lubriplete SYNAC-32	Acceptable - Qualified	Pour Point and Flash Point are both slightly off specification.
MEC-140	Shell	(Added Albida EMS-2 on 7/7/11)		
MEC-140	Mobil	Mobilith SHC 100		
MEC-140	Conoco	No Product Proposed		
MEC-141	Kluber Straburags	Kluber Straburags NBU 8 EP		
MEC-141	Conoco	No Product Proposed		
MEC-142	Dow Corning	Dow Molykote 33L		
MEC-142	Conoco	No Product Proposed		
MEC-148	Fuchs	Fuchs Renolit LSTO EP 0		
MEC-143	Conoco	No Product Proposed		
MEC-144	Cooper Power Systems	Cooper Envirotemp FR3		
MEC-144	Conoco	No Product Proposed		
MEC-145	Dow Corning	Dow Molykote 44M		
MEC-146	Supresta (ILC)	Fyrequel Plus		

CONFIDENTIAL EXHIBIT B THE ENTIRE DOCUMENT IS CONFIDENTIAL AND WILL BE PROVIDED SEPARATELY.

CONFIDENTIAL EXHIBIT B.1 THE ENTIRE DOCUMENT IS CONFIDENTIAL AND WILL BE PROVIDED SEPARATELY.

CONFIDENTIAL EXHIBIT B.2 THE ENTIRE DOCUMENT IS CONFIDENTIAL AND WILL BE PROVIDED SEPARATELY.



Procurement 825 NE Multnomah Street, Suite 940 Portland, Oregon 97232

Purchase Order

Shipping Address	
Vendor Address	
CONTRACTOR	
DALLAS, TX 97654	
USA	
Vendor Phone:	
Vendor Fax:	
Dillow Address	
Billing Address	
PacifiCorp	
Accounts Payable Department	
P.O. Box 3040	
Portland, OR 97208 - 3040	

Information P.O. Number Date 01/01/2011 Vandor No. Payment Terms Description NET 30 Buyer Phone Fex **Delivory Date** 01/01/2011 Inco Terms Description NA Inco Terms (Part X) N/A Show the Purchase Order Number on all packages, implices, bills of lading and correspondence. Send invoices to Accounts Psyable Department. Notify buyer immediately: (1) if unable to ship or deliver on dates specified below or (2) when description is incorrect or superceded.

EXECU							
	TED BETWEEN PACIFICORP AND	CONTRACTOR.					
This Wes	rk Release is entered into by and be	tween ("Contractor	r) and PACIFIC	ORP ("Company").			
Reference	oe Exhibit A, Scope of Work or the a	pplicable Scope of	Work reference	d herein for definition of w	ork to be per	formed.	
Reference	no Exhibit C of the General Services	Contract or the ap	pilcable pricing	echadula referenced here	in for pricing	applicable to the	nia Release.
To facility	ate prompt payment, ensure all invo	ices list the Purcha	se Ordar Work	Release Number and are	addressed as	nd/or emplied t	o:
PacifiCor	p Energy						
c/o							
A	cy: USD						
	rom: 01/01/2011 To: 12/31	/2011					
		Quantity	UM	Net Price	Per	UM	. Net Amount
Valid Fi	rom: 01/01/2011 To: 12/31	Quantity	UM	Net Price	Per 1	UM	Net Amount
Valid Fi	rom: 01/01/2011 To: 12/31	Quantity			Per 1		





PacifiCorp Procurement 825 NE Multnomah Street, Suite 940 Portland, Oragon 97232

Purchase Order

- 05/14/2009

	Total Net Value	USD	0.00
Vendor shall furnish the Goods and Services specified above in accordance to face hereof and any other provisions attached to, incorporated into, or otherw	with this Purchase Order, including the pro- ise made a part of this Purchase Order.	risions set forti	on th
This Purchase Order shall be governed by the terms and conditions of the Mar to which the items in this Purchase Order are identified.	ster Agreement executed by the partice to t	his Purciase O	rder an

Exhibit C2

FORM OF PURCHASE ORDER MIDAMERICAN ENERGY COMPANY

MidAmerican HINER OV CONSERVEY, PERMISSAY AT YES

SUPPLY COMPANY INC 1234 MAIN STREET PO BOX 4587

VENDOR PLEASE NOTE:

PLEASE ENTER THIS PURCHASE ORDER SUBJECT TO THE ACCOMPANYING TERMS AND CONDITIONS.

PO BOX 3006 SIOUX CITY,IA 51102

NEV PAGE PURCHASE ORDER 388196

THIS PO NUMBER MUST APPEAR ON ALL INVOICES, PACKING LISTS, CARTONS AND CORRESPONDENCE RELATED TO THIS ORDER.

MIDAMERICAN ENERGY COMPANY URBANDALE BUSINESS CENTER 4299 NW URBANDALE DR URBANDALE, IA 50322-7916

30_IAN_12 ANYTOWN, IA 12345-4567

li	6	XXX		0	
M sessenterer	0 9) PRICE		100.00	Date: 30-JAN-12 16:37 CT
BEST WAY	DICKMAN, DOUGLAS D	UNIT PRICE EXTENDED PRICE 100.00	•	TOTAL	Daths: 30-J
-	-	<u>5</u> 5		IONATURE	NAMOOD
DESTINATION	F. 1	QUANTITY &		AUTHORIZED SIGNATURE	Approved Electronically MARION STANWOOD
	-3	DELMERY DATE 01-MAR-12		DRESS	Hamencan, com
PREPATD/ALLOWED	(800) 123-4567	CHASED		EMAIL ADDRESS	MASURIMODO EMICENIENCEM COM
AYS ,	2	I DESCRIPTION -		FAX NUMBER	515-242-4231
NET 30 DAYS	VENDOR CONTACTICONFIR JANE DOE	DESCRIPTION OF GOODS OR SERVICES TO BE PURCHASED		PHONE NUMBER	915-281-2524
VENDOR # 30	US Dollar	DESCRIPTION OF			MSTANWOOD
	S. Carlot	<u> </u>			2

Exhibit C.3

FORM OF PURCHASE ORDER
NV ENERGY



PURCHASE ORDER

Sierra Pacific Power Company d/b/a NV Energy (NVE)

Send Invoice To:

NV Briegy; Accounts Payable

PO BOX 10100 RENO NV 89520-0024 Purchase Order : 00146515R00008

Revision:

Refrase: 0000B

Date Printed

: 11/22/13

Page Number : 1

Counterparty:

ATTN SALES

PO BOX 7900

SAN FRANCISCO CA 94120

Please Direct Inquiries to:

LISA TOY

Title : FURCHASING ACENTI

Dept : Procurement

Phone: (702) 402-5415

Fax : (702) 402-0626 ltoy@nvenergy.com

**** BLANKET ORDER RELEASE ****

Payment Terms :

Days Net 30 Days ERS: N Ref Contract:

Primary Ship To:

SIERRA PACIFIC POWER COMPANY

Deliver 6:30am - 1pm, M-P only

Valmy Power Station I-80, Stonehouse Exit 212 North Valmy NV 89438 ATTN:Receiving

Trenet type: BEST WAY - SHIPPER'S OPTION

: DESTINATION, FREIGHT PREPAID CHARGED

Carrier Name :

FOR Point : DESTINATION

Instructions & Notes

This Blanket Purchase Order is written as an invoice and Punding reference. Please Reference PO and RELEASE

on all invoices.

PLEASE NOTE: MAY CONTAIN MULTIPLE

'SHIP TO' ADDRESSES

Purchasing POC: Lisa Toy 702.402.5415

Line 0001 Q4

UP Catalog ID BA 0000133189 Unit Price

Extension

TAXABLE

Qtys

Delivery Date: 11/22/13

Descriptions



PURCHASE ORDER

Sierra Pacific Power Company d/b/a NV Energy (NVE)

.....

Send Invoice To: NV Engrey, Accounts Payable PO BOX 10100 REMO NV 89520-0024

Parchase Order : 00146515R00008 Revision: Release: 00008 Date Printed : 11/22/13

Page Number : 2

Mftr/Vendor :

: 97000-030/9156ENWP

Parchase Order Total Amount

TOTAL THIS PO:

* * * End of Purchase Order * * *

Oceaniespariy's written acceptance, delivery of goods or survices, or performance of this Paraltase Order creates a contract. NV Energy's Standard Purchase Order Terms and Conditions apply.

This Purchase Order may be used to accept formal offers submitted in response to a Request for Proposal (RIP), or to fund bilaterally executed contracts. In such cases, the terms and conditions of the RFP or the Contract apply and take precedence over NV Hosegy's Standard Porchase Order Terms and Conditions.

The parties agree that this Purchase Order shall be governed by the Terms and Conditions located at:

http://www.nvenergy.com/company/doingbusiness/supplism/index.cfm which are incorporated herein by reference. Seller represents by its essecution hereof or performance harounder that it has read and agrees to be bound by such terms and conditions.

LISA TOY Designated Buyer

Exhibit C.4

FORM OF PURCHASE ORDER CALENERGY OPERATING CORPORATION



SANTA MONICA, CA 98785

United States

123 MAIN STREET

ABC COMPANY

ASHDOR PLEASE NOTE:

PLEASE ENTER THIS PLRCHASE ONDER BLBLECT TO THE ACCOMPANYING TERMS AND CONDITIONS.

CALENERGY OPERATING CORP.
ATTN: ACCOUNTS PAYABLE
7030 GENTRY ROAD
CALIPATIA,CA 92233
EMAL: PAYABLESGCALENERGY.COM

PURCHASE ORDER PARTICIPATION AND THE POWERS MET APPEAR ON ALL MONOCES, PACCING LISTS, CARTONIS AND CONNESSIONORACE NELATED TO THIS ONDER.

CALENERGY OPERATING CORP. 7030 GENTRY ROAD CALIPATRIA,CA 92233 DATE OF ORDER . DATE OF REVISIÓN 16-JAN-13

BEST WAY	SHITH, Mr. BRIAN C (BRIAN)
DESTINATION	FAX MUMBER SSS 555 555 SSS -6666
PREPAID/ALLOWED	TELEPHONE MINDER FA (555) 555-5555 (555)
NET 30 DAYS	VERSION CONTACT/CONFINE TO
. VENDOR # 1.19330	CURTENCY US Dollar

THIS PURCHASE ORDER IS SUBJECT TO SALES & USE TAX AS FOLLOWS: STATE OF CALIFORNIA: 7.25%; IMPERIAL COUNTY: 1/2%

ALL INVOICES SHALL INCLUDE PURCHASE ORDER NUMBER AND LINE ITEM NUMBER(S) TO AID IN PROCESSING OF PAYMENTS. FAILURE TO INCLUDE THESE NUMBERS WILL RESULT IN THE RETURN OF INVOICES FOR CORRECTION BY THE CONTRACTOR OR VENDOR WITHOUT COST TO CALENERGY OPERATING CORPORATION

VENDOR OR CONTRACTOR TO PROVIDE AN ALL INCLUSIVE BILLING 80 AS TO MINIMAZE THE POSSIBILITY OF RESIDUAL INVOICES BEING RECEIVED BY CALENERGY OPERATING CORPORATION. THE PURCHASE ORDER AMOUNT IS "NOT TO EXCEED" WITHOUT PRIOR WRITTEN AUTHORIZATION FROM A CALENERGY PURCHASING REPRESENTATIVE.

VENDOR ACCEPTS THIS PURCHASE ORDER BY ELECTRONIC SIGNATURE, BY ACCEPTING OR FILLING THIS ORDER OR ANY PART THEREOF, VENDOR AGREES TO CONDUCT THIS TRANSACTION VIA ELECTRONIC MEANS AND TO BE BOUND BY THE ACCOMPANYING TERMS AND CONDITIONS.

LOO 1.00	OTAL: 1.00
UOM UNIT PRICE EXTENDED PRICE	2
E CO	IGNATUR Ctronically DRADE
ENERGY.COM GUANTITY 1.00	AUTHORIZED SIGNATURE Approved Electronically NANCY ANDIADE
PLEASE BRAIL ALL BRYONCES TO: PAYABLE RECALENERSY, COM DELAVERY DATE 16-FEB-13 1,00	EKALL ADDRESS
DESCRIPTION ICES	FAX NUMBER
LINE DESCRIPTION OF GOODS OR SERVICES	PHONE NUMBER
DESCRIPTION	BUYER N ANDRADE
- E	

Exhibit E

AFFILIATES LIST AND PRINCIPAL BUSINESS ADDRESS

Berkshire Hathaway Energy 666 Grand Avenue, Suite 500 Des Moines, IA 50309-2580

CalEnergy Generation 7030 Gentry Road Calipatria, CA 92233

CalEnergy Philippines 24 Floor, 6750 Building 6750 Ayala Avenue Makati, Metro Manila Philippines 1226

HomeServices of America, Inc. 333 South 7th Street, Suite 2700 Minneapolis, MN 55402

Intelligent Energy Solutions, LLC 980 Birmingham Road, Suite 501 Milton, GA 30004

Kern River Gas Transmission Company 2755 East Cottonwood Parkway, Suite 300 Salt Lake City, UT 84121

Metalogic Inspection Services 400, 10525-170 Street NW Edmonton Alberta Canada, T5P 047

MidAmerican Energy Company 666 Grand Avenue, Suite 500 Des Moines, IA 50309-2580

MidAmerican Renewables, LLC 666 Grand Avenue, Suite 500 Des Moines, IA 50309-2580 MidAmerican Transmission 825 NE Multnomah Street, Suite 1600 Portland, OR 97232

Nevada Power Company dba NV Energy 6226 West Sahara Avenue Las Vegas, Nevada 89146

Northern Natural Gas Company 1111 South 103rd Street Omaha, NE 68124-1000

Northern Powergrid Lloyds Court Newcastle United Kingdom 50322-7916

PacifiCorp 825 NE Multnomah Street, Suite 400 Portland, OR 97232

Sierra Pacific Power Company dba NV Energy 6100 Neil Road Reno, Nevada 89511

2014 Berkshire Hathaway Energy Company

Affiliate Participation Letter

TO: Phillips 66 Company

This letter confirms the intent of PacifiCorp to participate in and utilize the contract documents of the lubrication supply contract (the "Contract") between Berkshire Hathaway Energy Company and Phillips 66 Company that became effective December 23, 2014. We have reviewed the terms and conditions of the Contract in detail and agree to abide by them. It is understood and agreed that each Affiliate participating in this Contract is solely responsible and liable for its own purchases and payment to the appropriate entity for products or services provided to that Affiliate. Berkshire Hathaway Energy Company and the other Affiliate companies shall have no liability for payment or other obligations, contractual or otherwise, incurred by the specific Affiliate.

Further, we agree and acknowledge that the terms, conditions, and applicable appendices or exhibits set forth in the Contract will apply to Phillips 66 Company and PacifiCorp. As a participating majority-owned Affiliate, in return for Phillips 66 Company's commitments, it is our intention to purchase material, equipment, or work in accordance with the Contract. It is understood and agreed that material, equipment, or work will be provided in accordance with this Contract.

All invoices for material, equipment, or work for PacifiCorp shall be addressed as follows:

PacifiCorp

Attn: Accounts Payable Department

P.O. Box 3040

Portland, OR 97208-3040

Sincerely PacifiCorp

Printed: Micheal G. Dunn

Title: President and Chief Executive Officer

Date: 15/15